

FIRELANDS HIGH SCHOOL

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COURSE

SELECTION

GUIDE



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No student shall be denied admission to the Firelands Local School District or to a particular course or instructional program or otherwise discriminated against for reasons of race, color, national origin, sex, disability or any other basis of unlawful discrimination.

WELCOME TO FIRELANDS HIGH SCHOOL

This booklet has been compiled through the efforts of the entire faculty here at Firelands High School. It is our hope that you will use this information to help you plan your personal course of study and that you will enjoy a successful four years with us.

PLAN NOW

Planning is a very important first step. To help you establish your course of action for the next four years, the following suggestions are offered:

1. Consider what is of interest to you and try to take courses that will increase your knowledge in your interest areas.
2. Be realistic about your abilities and aptitudes.
3. Take the opportunity to expand your interests and skills. Make the most of what is available to you.
4. Be prepared to take responsibility for yourself and your actions.
5. Consider the basic courses that must be taken to meet high school graduation requirements and those required by the colleges and technical schools of your choice.
6. Discuss with your teachers, counselor, and parents the courses they suggest you take each year, but remember you are the one who will do the work.

You are a unique individual. Choose a plan that will help you reach your own goals. A proper plan will help you gain knowledge, satisfaction, and happiness.

**MINIMUM REQUIREMENTS FOR GRADUATION FROM FIRELANDS HIGH SCHOOL
THE REQUIREMENTS OF THE OHIO CORE AND THE FIRELANDS BOARD OF EDUCATION IN ORDER TO GRADUATE**

Twenty-three (23) units of credit and see below for class specific testing requirements

The requirements are:

English	4 credits (must include English I, II, III, IV)
Social Studies	4 credits (must include World Studies, U.S. History, Government)
Mathematics	4 credits (must include one unit of Algebra II)
Science	4 credits (must include Biology)
Health	1/2 credit
Physical Education	1/2 credit
Fine Arts	1 credit
Electives	minimum of 5 credits

Vocational requirements are: (Also includes students who complete a Senior Only program of 3 Vocational Credits at the JVS)

English	4 credits (must include English I, II, III, IV)
Social Studies	3 credits (must include World Studies, U.S. History, Government)
Mathematics	4 credits (must include one unit of Algebra II)
Science	3 credits (must include Biology)
Health	1/2 credit
Physical Education	1/2 credit
Vocational Program	6 credits (Only 3 for Senior Only Program)
Elective	1 credit

Under Firelands Local Schools policy JECBC-R, a student must be enrolled full-time in their last four semesters and meet all other graduation requirements as set forth by the Firelands Local School Board and the Ohio Department of Education to qualify for a Firelands Local Schools Diploma.

FULL-TIME STATUS - Students in grades 9, 10 and 11 must take a minimum of the equivalent of 6.0 credits per year (5.75 if taking Physical Education course). Students who have 12th grade standing must take a minimum of 5.0 credits per year. Credits earned are a combination of courses taken at FHS, the LCJVS, or a CCP program. All students in grades 9-12 are required to enroll in four credits of core courses per year at Firelands High School. Core is defined as English, Math, Science, and Social Studies. This rule may be modified due to the special circumstances of a student's academic program and previous credits earned.

GRADUATION REQUIREMENTS

Graduation requirements consist of three parts, which must all be met to fulfill the requirements to receive a high school diploma in the State of Ohio.

Part 1 – Basics – Each student must earn 23 credits, and meet the requirements of the Firelands Local School District, as described above in earning credits in meeting graduation requirements in English, Mathematics, Science, Social Studies, Health, Physical Education, and Elective Credit. Students attending the Lorain County JVS must meet their Vocational Requirements, as described above.

Part 2 – Competency – Students must earn a passing score on Ohio's End-of-Course school Algebra I and English II tests. Students who do not pass at least one of these tests will be offered additional support and must retest in the failed area at least once. If they cannot pass this test after additional support, they can use one of the following three pathways to meet the Part 2 requirement:

1. Demonstrate Two Career-Focused Activities, at least one being Foundational
2. Enlist in the Military – Must show evidence
3. Earned credit for one college-level math or college-level English course through College Credit Plus

Part 3 – Show Readiness – Earn two Seals from the list below, at least one must be Ohio-designated. Some of these Seals will only be available at the LCJVS.

1. Ohio Means Jobs Readiness Seal: Meet the requirements and criteria established for the readiness seal, including demonstration of work-readiness and professional competencies.

2. Industry Recognized Credential: Earn a 12-point approved industry-recognized credential or group of credentials totaling 12 points in a single career field.
3. College-Ready: Earn remediation-free scores on the ACT or SAT. Visit the Department's website to see current remediation-free scores.
4. Military Enlistment: Provide evidence that a student has enlisted in a branch of the U.S. Armed Forces; or participate in an approved JROTC program.
5. Citizenship: A student can:
 1. Earn a score of proficient or higher on both the American history and American government end-of course exams;
 2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement or International Baccalaureate exams; or
 3. Earn a final course grade that is equivalent to a "B" or higher in appropriate classes taken through the College Credit Plus program.
6. Science: A student can:
 1. Earn a score of proficient or higher on the biology end-of-course exam;
 2. Earn a score that is at least equivalent to proficient on appropriate Advanced Placement or International Baccalaureate exams; or
 3. Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program.
7. Honors Diploma: Earn one of six Honors Diplomas outlined below:
 1. Academic Honors Diploma;
 2. International Baccalaureate Honors Diploma;
 3. Career-Tech Honors Diploma;
 4. STEM Honors Diploma;
 5. Arts Honors Diploma;
 6. Social Science and Civic Engagement Honors Diploma.
8. Seal of Biliteracy: Meet the requirements and criteria, including proficiency requirements on assessments in a world language and English.
9. Technology: A student can:
 1. Earn a score that is at least equivalent to proficient on an appropriate Advanced Placement or International Baccalaureate exam;
 2. Earn a final course grade that is equivalent to a "B" or higher in an appropriate class taken through the College Credit Plus program; or
 3. Complete a course offered through the district or school that meets guidelines developed by the Department. (A district or school is not required to offer a course that meets those guidelines.)
10. Community Service (Local only): A student must complete a community service project through a group or organization which promotes community service. Some examples would be an Eagle Scout project, a community service project where the student was the organizer and is the lead person through a school or community group (Key Club, Church affiliation, Student Council). This project must be presented to the Firelands High School Building Leadership Team (BLT) prior to being approved, and must be verified by an adult leader of the community service group. An application is available to submit for pre-approval.
11. Fine and Performing Arts (Local only): A student must complete at least six semesters worth of credit in Band, Choir, Fine Arts, or Drama, and earn a cumulative 3.0 GPA during those six semesters in order to earn this seal. Students may also apply through an outside group to achieve this seal, but it must be pre-approved by the Firelands High School BLT prior to being approved. Examples of this would be participation in the Cleveland Orchestra, an outside Drama Club, or some other group where participation could be verified. This person must have over 120 cumulative hours in the activity or club verified to meet the qualification. An application is available to submit for pre-approval.
12. Student Engagement (Local only): A student must participate in extracurricular activities such as athletics, band or choir, a club (Art Society, Tri-M, Student Council, Class Council, etc) to a meaningful extent. The student must successfully complete at least six semesters of activities to be deemed meaningfully engaged. All activities are verified by the advisor or coach of the group. There is no need to apply for this seal.

ACADEMIC PATHWAYS

COLLEGE PREP

Students are encouraged to take as many academic classes as possible to prepare for college after high school. College & Career Readiness focuses on the transition after high school to post-secondary training based on individual career goals. It is important to note that a student must be doing well in their courses to keep taking upper level courses. It is highly recommended that students interested in pursuing further education obtain three credits of a world language.

COLLEGE TECH PREP

College Tech Prep (CTP) programs are a unique educational option for the last two years of high school. It is designed for students who plan to go to college - but who want to actually *experience* a particular career before investing in college. The program combines traditional, college-preparatory academics with intense, lab-based instruction in the career of choice. Because of the need for specialized lab facilities, ½ of the day is normally spent at the home school for academics. The other ½ day is spent at the Lorain County JVS.

Learning in CTP programs is hands-on and challenging, with the opportunity to earn articulated college credit for work completed at the high school level. Students best suited for College Tech Prep are those who are active, experiential learners, who like building, designing, and “tinkering,” and who learn best by applying their knowledge to real-life situations.

Enrollment in College Tech Prep programs is competitive and generally requires:

- A solid GPA (approximately 2.5 or above)
- Completion of at least Algebra I with a grade of “C” or better
- Junior standing at the end of 10th grade
- Completion of Biology with a “B” or better (Health Science Technology only)

Program Options

Health Science Technology (HST): Prepares students for a wide range of health careers through development of basic medical knowledge and essential clinical skills. Courses include medical terminology, first aid/CPR, pathology, patient care, body structure/function, etc.

Engineering Technology/Project Lead the Way (ET/PLTW): Provides the foundation for careers in engineering or engineering technology by integrating coursework in pneumatics/hydraulics, robotics, fluid power systems, mechanical drive systems, etc., with national curriculum from the “Project Lead the Way” pre-engineering program.

Digital Media Arts (DMA): Provides the fundamental principles and processes of computer-based design using a variety of traditional and nontraditional media with an emphasis on problem solving and creative exploration. Students work in a digitally integrated computer lab using such media as high-definition video, sound, animation, installation art, print & digital photography.

Network Communications Technology (NCT): Provides the essential knowledge and skills for careers in computer information systems. Special emphasis is placed on network design, operation, and maintenance; with opportunities for professional certifications for software programs such as A+, Net+, and Cisco.

PROJECT LEAD THE WAY (PLTW)

PLTW is a high school college tech-prep program designed to help students succeed in engineering, science, and technology careers. The PLTW program begins at a student's home school with a course taken in the sophomore year. Students who choose to continue the PLTW program take their junior courses at Lorain County JVS or at a satellite location on the campus of Lorain County Community College. Academic courses are taken at a student's home school.

INTRODUCTION TO ENGINEERING DESIGN – 9th - 10th Grade – at FHS – 36 week course

This course will introduce students to the design process and the tools used in product development. Students will learn through first-hand experience the activities that engineers engage in through the design cycle. Development of design briefs, sketching, 3-D solid modeling and prototyping will provide the foundation for activities in Introduction to Engineering Design.

PRINCIPLES OF ENGINEERING (POE) - 10th – 12th Grade - 1st Semester at JVS

Explore technology and engineering processes to discover how math, science, and engineering impact your daily life.

COMPUTER INTEGRATED MANUFACTURING (CIM) - 11th Grade - 2nd Semester

Create 3-D designs with modeling software and learn about robotics and automated manufacturing.

DIGITAL ELECTRONICS (DE) - 12th Grade - 1st Semester

Design, test, and construct circuits. Use computer simulation to learn about electronics.

CIVIL ENGINEERING & ARCHITECTURE - (CIVIL) - 12th Grade - 2nd Semester

Work in teams to design community building projects.

CAPSTONE PROJECT (Capstone) - 12th Grade

Demonstrate what you've learned by collaborating with your classmates and community mentors to research, design, and construct solutions to engineering problems.

Program Highlights

- If you do well in the PLTW courses and pass the exit exam, your courses can earn you college credit.
- Some of the college credits you earn by taking PLTW courses can be transferred to over 30 colleges and universities, and this list gets bigger every day.
- You can conveniently take additional courses and earn your Associate Degree while still in high school.

VOCATIONAL PROGRAMS LORAIN COUNTY JOINT VOCATIONAL SCHOOL

The Lorain County Joint Vocational School (LCJVS) provides our Juniors and Seniors the opportunity to receive specific vocational training. Receive a vocational certificate and diploma if you successfully complete the program. This is good training for entry into career fields. You can also attend college upon graduation.

During the sophomore year, presentations are given at FHS to provide a general overview of all programs offered at LCJVS. Interested sophomores may then choose two programs to visit for a sophomore tour of programs at the LCJVS.

The application process begins in February of the sophomore year. We recommend that students apply to LCJVS if they have any interest. They may then decide in the fall whether to stay at LCJVS or return to FHS.

Students apply for admission to programs and are chosen according to their qualifications in comparison with those of other applicants. Factors considered for admission are grade point average, attendance record, and courses taken at FHS. Students who apply late will not have a good opportunity for admittance.

Students attending LCJVS during their junior and senior years must meet Firelands High School graduation requirements and are still eligible for college or further technical training.

TEACHER EDUCATION EXPLORATION PROGRAM (TEE)

The Teacher Education Exploration Program is designed to encourage interested high school seniors to enter the teaching profession by providing them with the support and training necessary for success as both students and teachers. The students enrolled in the TEE Program will intern in all grade levels, from kindergarten through high school.

Students enrolled in the Teacher Education Exploration Program will receive three vocational credits and three college credits if they maintain at least a B average. The Program consists of classroom time (one day per week) and internship experience (four days per week) for three periods per day.

Teacher Education Exploration curriculum will be taught as an online course offered through Lorain County JVS's website. The students will also meet with the TEE Program teacher one day per week at LCCC to gather information, concepts, and theories related to teaching, learning, and children. The best way to learn how to teach is to observe experienced and enthusiastic teachers and to talk to them about what they do. Students will learn to apply information, concepts, and theories to real-life contexts. TEE students will be placed in K-12 classrooms as interns with each placement lasting four to six weeks. At the end of the year, the student will be able to revisit his/her favorite grade level or area.

For students, the Program has the following goals:

- Ensure college readiness and exposure to college
- Provide education related to teaching and learning
- Provide internship experience under the guidance of an experienced teacher
- Promote positive attitudes towards teaching

Sample Schedule: Required: English IV & Math Electives: TEE (3credits) & 1-2 Elective Classes

COLLEGE CREDIT OPPORTUNITIES AT FHS

Students enrolled in the following courses have the opportunity to receive college credit:

1. AP Art & Design– Successful completion and passage of the prescribed AP Art Portfolio
2. AP Calculus – Successful passage of the AP Exam as individually determined by each college/university
3. AP Chemistry – Successful passage of the AP Exam as individually determined by each college/university
4. AP Psychology - Successful passage of the AP Exam as individually determined by each college/university
5. AP Physics – Successful passage of the AP Exam as individually determined by each college/university
6. LCCC – College Algebra – 4 college credit hours from LCCC
7. LCCC – Pre-Calculus – 3 college credit hours from LCCC

8. LCCC – Statistics – 3 college credit hours from LCCC
9. LCCC – College Composition I & II – 3 college credit hours each from LCCC
10. LCCC - American National Government – 3 college credit hours from LCCC
11. LCCC – Personal Finance – 3 college credit hours from LCCC
12. LCCC - Anatomy & Physiology I & II – 4 college credit hours each from LCCC
13. LCCC - United States I & II – 3 college credits hours each from LCCC
14. LCCC - Introduction to Business Administration - 3 college credit hours from LCCC
15. LCCC - Plant Propagation - 2 college credit hours from LCCC
16. LCCC - Business Principles of Sustainable Agriculture - 3 college credit hours from LCCC

CCP or AP Weighting – 5.0 Scale – Any AP or CCP Course taken at FHS is weighted on this scale. For CCP Courses taken at a partner institution, listed below are the departments in which a course taken would be weighted on this scale, due to the fact that a class in a related subject area is weighted at FHS. All CCP Courses taken at a partner higher education institution must also be approved under OAC (Ohio Administrative Code) 3333-1-65-.12, and must also be courses approved under Tier I or Tier II guidelines.

- **English** - Courses taken in the following areas are eligible for this scale – Applied Communication (TCMN), Journalism (JRNM), Literature and Composition (ENG), Speech (CMMC)
- **Mathematics and Science** – Courses taken in the following areas are eligible for this scale – Astronomy (ASTY), Biology (BIOG), Computer Gaming and Simulation Design (CGSD), Chemistry (CHMY), Mathematics (MTHM), Physics (PHYC), Physical Science (PSSC), Sustainable Agriculture (SAGR)
- **Social Studies** – Courses taken in the following areas are eligible for this scale - History (HSTR), Humanities (HUMS), Philosophy (PHLY), Political Science and Government (PLSC), Psychology (PSYH), Social Science (SOCY), Western Civilization
- **Financial Literacy** – Courses taken in the following areas are eligible for this scale - Finance (FNCE) and Economics (ECNM)
- **Electives** – Courses taken in the following areas are eligible for this scale - Art (ARTS)

Grading Scale – A – 5.0, B – 4.0, C – 3.0, D – 1.0, F – 0.0

COLLEGE CREDIT PLUS PATHWAY

A student enrolled at Firelands High School is eligible to participate in the College Credit Plus Program. This is an opportunity for students to take classes through the Lorain County Community College. The purpose of this program is to provide a wider variety of options to high school students. Students interested in this program must meet Firelands High School graduation requirements plus any enrollment requirements that post-secondary institutions may have.

FIRELANDS CCP ENHANCED PATHWAY

9th Grade

Periods Avail.	HS Credit	HS Course	LCCC Course	College Credit
1	1	English 9		
2	1	Geometry		
3	1	Biology		
4	1	Social Science I		
5	1	Foreign Language I		
6	.25/.5	PE/Elective		
7	1	Elective		
Totals	6.75			0

10th Grade

Periods Avail.	HS Credit	HS Course	LCCC Course	College Credit
1	1	English 10		
2	1	Algebra II		
3	1	Chemistry		
4	1 1	Social Studies II	HSTR 161: United States I HSTR 162: United States II	3 3
5	.5 .25	Health Physical Education		
6	1	Foreign Language II		
7	1	Elective/Fine Arts		
	7.75			6
Totals	14.50			6

11th Grade

Periods Avail.	HS Credit	HS Course	LCCC Course	College Credit
1	1	English 11		
2	1 1	Advanced Math Or Pre-Calculus	MTHM 168: Statistics MTHM 171: College Algebra MTHM 172: Pre-Calculus	3 4 3
3	1 1	Advanced Science	BIOG 121: Anatomy / Physiology I BIOG 122: Anatomy / Physiology II	4 4
4	1 1	Social Studies 3	PLSC 156: American National Government ECNM 113: Personal Finance	3 3
5	1	Foreign Language III		
6 & 7	2	Open/Elective		
				32
Totals	23.50-25.50			38

12th Grade

Periods Avail.	HS Credit	HS Course	LCCC Course	College Credit
1	1 1	English 12	ENGL 161: College Composition I ENGL 162: College Composition II HUMS 271: Intro to Mythology HUMS 262: Intro to Great Books	3 3 3 3
1	1	Advanced Math	MTHM 168: Statistics MTHM 171: College Algebra MTHM 172: Pre-Calculus	3 4 3
2	1 1	Advanced Science	BIOG 121: Anatomy / Physiology I BIOG 122: Anatomy / Physiology II	4 4
3, 4, 5 & 6	1	Open/Elective		
	5-8			25
Totals	28.50- 33.50			63

CCP Advantages

- A. Courses paid for by the school district. High school and college credit is awarded for successful completion of courses
- B. A supplement to college prep curriculum
- C. Gives students opportunity to see what is expected in college
- D. Courses available at FHS. If taken at LCCC, student must provide their own transportation

COLLEGE CREDIT PLUS (CCP) PROBATION OR DISMISSAL POLICY (OAC 3333-1-65.13) Underperforming and Ineligible Students

- I. Has a cumulative grade point average of lower than 2.0 in the college courses taken through the college credit plus program.
- II. Withdraws from, or receives no credit, for two or more courses in the same term
"Ineligible student" means a student who meets the definition of an underperforming student for two consecutive terms of enrollment.

CCP PROBATION

- I. The student shall enroll in no more than one college course in any term
- II. The student shall not enroll in a college course in the same subject as a college course in which the student earned a grade of "D" or "F" or for which the student received no credit
- III. If a student takes a college course after being placed on CCP probation and the course grade raises the student's cumulative grade point average in the student's college courses (College GPA) to a 2.0 or higher, the student shall be removed from CCP probation and may participate in the college credit plus program without restrictions, unless the student again becomes subject to this rule. If the student takes a college course while on CCP probation and the course grade does not raise the student's cumulative grade point average in the student's college courses (College GPA) to a 2.0 or higher, the student shall be dismissed from the program in accordance with CCP Dismissal Policy below

CCP DISMISSAL

- I. A student who has been dismissed from the college credit plus program shall not take any college courses through the program. In the event the student fails to dis-enroll from courses as required by this paragraph, the secondary school shall promptly notify the student and the student's parent that the student shall be responsible for paying all tuition, fees, and textbook costs for courses from which the student was required to dis-enroll and that the student's dismissal from the program shall continue for an additional term.
- II. After one term of CCP dismissal, a student may request the secondary school to allow the student to participate in the college credit plus program. The school shall review the student's full high school and college academic record to determine the student's academic progress. The school shall continue the student's dismissal, place the student on CCP probation, or allow the student to participate in the program. For purposes of this paragraph, summer shall count as a term of dismissal from the program only if the student is enrolled in one or more high school courses during the summer.

CCP APPEAL PROCESS AND CRITERIA FOR RE-ADMISSION

I. A student who is dismissed from the college credit plus program, or is prohibited from taking a course due to probation, may appeal the decision to the High School Principal, acting as the designee for the Superintendent in this matter. The High School Principal may take into account any extenuating circumstances separate from academic performance that may have affected the student's CCP status and may do any of the following:

- (a) Allow the student to participate in the program without restrictions
- (b) Allow the student to take a course otherwise prohibited by probation
- (c) Allow the student to participate in the program on CCP probation
- (d) Maintain the student's dismissal from the program.

II. The student shall request an appeal within five business days after being notified of the CCP dismissal or the CCP probation that prohibits the student from taking a course in a subject under probation. The secondary school shall promptly notify any institution of higher education in which the student is enrolled that the student has requested an appeal. The Superintendent's designee, as applicable, shall issue a decision on the student's appeal within ten business days after the date the appeal is made. The decision shall be final. The secondary school shall promptly notify any institution of higher education in which the student is enrolled of the decision.

CRITERIA FOR REINSTATEMENT INTO THE CCP PROGRAM

Following one term of dismissal, a student may submit a request to the Superintendent (designee) to be reinstated to the College Credit Plus Program. Summer shall only be counted as a term if the student is enrolled in one or more high school courses during the summer. Upon receipt of the reinstatement request, the student's full high school and college academic record will be reviewed to determine whether the student has achieved academic progress and whether s/he will be reinstated on probation or without restriction.

Reinstatement on Probation: In order to be reinstated to the College Credit Plus Program on probation, the student must meet the following academic progress criteria:

- I. Student completes high school courses with an established grade point average of a 3.0 (unweighted) in subject/content area, and
- II. In coordination with his/her assigned FHS counselor, establish an individual success plan to review progress toward meeting high school graduation requirements and college course options, and
- III. Maintain a daily attendance rate at Firelands High School of 85% or higher.

Reinstatement without Restriction: In order to be reinstated without any restrictions, the student must meet the following academic progress criteria:

- I. Completion of CCP course(s) with an established grade point average of a 3.0 unweighted or higher in each core subject/content area, and
- II. In coordination with his/her assigned FHS counselor, establish an individual success plan to review progress toward meeting high school graduation requirements and college course options.

If the student fails to demonstrate academic progress as defined above, the Superintendent (designee) shall extend/continue the student's dismissal for an additional term(s). During the dismissal period, the student shall remain ineligible to participate in the College Credit Plus Program until academic progress is achieved.

RECOGNITION FOR ACADEMIC EXCELLENCE

Firelands High School will recognize academic excellence as follows:

Summa Cum Laude

Any student having earned an accumulative GPA of 4.0 or higher by the conclusion of the 7th semester will be distinguished as a *Summa Cum Laude* graduate (with highest honors). This distinction will replace the former recognitions of valedictorian and salutatorian.

Magna Cum Laude

Any student having earned an accumulative GPA of 3.75 to 3.999 by the conclusion of the 7th semester will be distinguished as a *Magna Cum Laude* graduate (with high honors).

Cum Laude

Any student having earned an accumulative GPA of 3.5 to 3.749 by the conclusion of the 7th semester will be distinguished as a *Cum Laude* graduate (with honors).

Honors Diplomas

High school students can gain state recognition for exceeding Ohio's graduation requirements through an honors diploma. Students challenge themselves by taking and succeeding at high-level coursework and in real-world experiences.

Ohio students have the opportunity to choose to pursue one of six honors diplomas:

- Academic Honors Diploma
- International Baccalaureate Honors Diploma
- Career Tech Honors Diploma
- STEM Honors Diploma
- Arts Honors Diploma*
- Social Science and Civic Engagement Honors Diploma

*includes dance, drama/theatre, music and visual art.

Please go to <http://education.ohio.gov/Topics/Ohio-s-Graduation-Requirements/Honors-Diplomas> for more information about Honors Diplomas.

HONORS CLASSES

Honors classes are characterized by the following:

- Independent work – An increased level of rigor and depth for self-exploration
- Complexity and difficulty of material – the material is more difficult and complex than general education courses
- Critical thinking skills -- honors classes require a greater amount of activity at higher levels of critical thinking, including synthesis and evaluation

The following courses will be offered as Honors courses:

Honors Algebra
Honors Algebra II
Honors Geometry
Honors English I & II
Honors Modern World History
Honors Physical Science
Honors Biology
Honors Pre-AP Chemistry

Honors classes are on the following grading scale: A = 4.5 points, B = 3.5 points, C = 2.5 points, and D = 1 point.

MINIMUM CLASS SIZE

Elective and honor classes must have a minimum of ten (10) students. If a class a student registers for does not meet this requirement and is eliminated, the student will be notified.

COURSE LOAD

Students in grades 9, 10 and 11 must take a minimum of the equivalent of 6.0 credits per year (5.75 if taking a Physical Education course). Students who have 12th grade standing must take a minimum of 5.0 credits per year. Credits earned are a combination of courses taken at FHS, the LCJVS, or a CCP program. All students in grades 9-12 are required to enroll in four credits of core courses per year at Firelands High School. Core is defined as English, Math, Science, and Social Studies. This rule may be modified due to the special circumstances of a student's academic program and previous credits earned.

SCHEDULE CHANGES

Students and parents are given full input into choosing classes. This process should be undertaken with care since no schedule changes will not be permitted after the start of each semester unless a placement team, which includes parents, teacher, counselor, and principal, agree that a misplacement has been made. For this reason, students may change their schedules only prior to June 1 of the previous academic year.

Schedule changes will only be made for academic reasons. These reasons do not include reasons outside of the educational process. Please also remember that athletes must pass, at the minimum, the equivalent of five (5) 1-credit courses each grading period to remain eligible for the following grading period. It is the responsibility of every student, regardless of where the courses are taken, to ensure their eligibility status each time they schedule, or alter their schedule. Please also note that Physical Education Courses which are worth .25 credits do not meet the criteria of the equivalent of a 1-credit class, and are not counted as one of the five one-credit courses required for athletic eligibility.

If additional classes are desired and openings are available, courses may be added prior to the beginning of a semester with a parent note and counselor approval.

CREDITS OUTSIDE THE REGULAR SCHOOL PROGRAM

Credits will not be granted for night school, summer school, or private tutoring without prior approval of the principal and school counselor. This approval must be granted **BEFORE** a student registers for any of the above listed activities.

FLEXIBLE CREDIT

Flexible Credit is any alternative coursework, assessment, or performance that demonstrates proficiency needed to be awarded equivalent graduation credit as approved by the school district. Approved credit awarded through this policy will be posted on the student's transcript and counted as graduation credit in the related subject area or as an elective. Flexible Credit is designed to be an alternative to the standardized unit of credit, Carnegie Unit, or 120 hours of seat time.

Any high school student may apply for credit to be awarded through Credit Flexibility by submitting the appropriate forms and receiving approval. The student will be required to provide supporting documentation as determined by the administration. They may also be required to take a test, create a project, or complete several combinations of measures to prove they have succeeded in completing the Flex Credit. The teacher who provides the credit must provide a plan as to how the student will prove competence in the desired Flex Credit area. Applications may be made twice a year; deadlines are June 1st and December 1st.

REPEATING FAILED SUBJECTS

A student who fails a required subject must repeat it the following year or take it in summer school. **If a student fails English or Math, the student must make it up in summer school to stay on track for graduation.** A student who fails other required graduation courses or electives has a choice of retaking the course during the following school year or during summer school. The student must communicate the plan to retake the course to the guidance office before the end of the school year to allow for proper scheduling. It is the responsibility of the student to see the counselor to make arrangements concerning failed subjects. It is recommended that all failed courses be taken during the summer.

ACT/SAT

These tests are part of admission requirements for most colleges and universities across the country. Many schools accept either but you should check with the college admissions office on which test they prefer. These tests may be taken any number of times with only the best scores counting for college admissions and scholarships. Students may take these tests at any time, but it is recommended for students to take one of these tests in the spring of their junior year and/or early in their senior year. Students on free or reduced lunches may be eligible for a reduction in testing fees. Test dates and websites are listed below for both. **Please note that the State of Ohio will pay for a selected college entrance test to be given at the home school for all members of the Class of 2022 (juniors). This test date is in addition to the below dates, and students will be registered through the School Counseling Office.**

ACT Test Dates www.actstudent.org

September 10, 2022

October 22, 2022

December 10, 2022

February 4, 2023

April 8, 2023

June 10, 2023

July 15, 2023

SAT Test Dates www.collegeboard.org

August 27, 2022

October 1, 2022

November 5, 2022

December 3, 2022

March 11, 2023

May 6, 2023

June 3, 2023

CAREER BASED INTERVENTION (CBI)

<u>Course No.</u>	<u>Course Name</u>	<u>Credit</u>
365	Career Readiness	1
366	Career Exploration	1
390	Career Connections	1
391	CBI Related Skills	1 to 3 credits

Career Readiness (365) **Grade 9**

1 credit

This is a freshman level course that offers students a chance to explore their skills, aptitudes, passions, and interests to help students self-discover possible careers. The class also has a heavy emphasis on personal finance including budgeting that is designed to give the students a reality-based look at what they want in life and what they need to do to be able to afford that lifestyle. A second component of the class is a cloud based lab experience designed to give students problem solving tasks embedded in career modules. Finally, a third experience includes a hands-on component that allows students to design, build, test, and compete with other students in such areas as bridges, cranes, houses, and CO₂ cars.

Career Exploration (366) **Grade 10**

1 credit

This is a sophomore level course that offers students the opportunity to delve further into their career interests. Guest speakers, field trips, JVS tours and shadowing are all utilized to help the students discover more about the daily requirements of their chosen careers. A cloud based lab experience that is designed to give students problem solving tasks embedded in career modules will be utilized. Students will also learn soft skills that will help them be better suited to apply for and get a job.

Career Connections (390) **Grades 11 & 12**

1 credit

The class will take a look at the careers that the students may be interested in after high school. This class will use the Buckeye Lab curriculum which consists of online modules to introduce students to possible careers. Students will learn about different trades at the JVS so they can pursue their senior year or adult education. Students will also work on organizational skills, proper study skills, and self-monitor throughout the course.

CBI Related Skills. (391) Grade 12

1 to 3 credits

The Career Based Intervention program is designed for senior students who are academically on track for graduation and are looking for real-world work experience during the lab portion of their school day. The program attempts to reorient students' attitudes toward higher levels of achievement in school and work to reinforce their social responsibility to our society. It is hoped this can be accomplished by arranging suitable, on-the-job training and related instruction to develop feelings of accomplishment and success. Career Based Intervention students must work during the lab portion of their school day in the local business community and they receive high school credit for this work experience. This program is for students who:

- Have a valid driver's license
- Are physically able to work
- Have been recommended by school personnel
- Students are required to maintain employment for the entire school year.
- Transportation to and from school and the job site is the responsibility of the student.

AGRICULTURAL SCIENCE

<u>Course No.</u>	<u>Course Name</u>	<u>Credit</u>
970	Energy Systems Management	
972	Environmental Science for Agriculture	
971	Animal Health	
975	Agriculture, Food and Natural Resources	1.25
981	Animal & Plant Science	1.25
985	Business Management for Agricultural & Environmental Systems	1.25
993	Mechanical Principles	1.25
995	Ag. & Environmental System Capstone	1.00

***All agricultural science classes will have a Class and Future Farmers of America (FFA) fee due at the beginning of the school year.**

Agriculture, Food and Natural Resources (975)

1.25 credit

This is the first course in the Agricultural and Environmental Systems career field. It introduces students to the pathways that are offered in the Agricultural and Environmental Systems career field. As such, learners will obtain fundamental knowledge and skills in food science, natural resource management, animal science & management, plant & horticultural science, power technology and biotechnology. Students will be introduced to the FFA organization and begin development of their leadership ability. Approximately eight weeks of course will be devoted to agricultural mechanics lab projects, specifically hand & power tool woodworking. Each student is required to complete a Supervised Agricultural Experience (SAE) program involving animals, crops, or job placement that is worth 0.25 credits and will take place outside of regular school hours. The course and lab work are worth one credit for a combined 1.25 credit hours. Preference is given to freshman who could complete a four year sequence. Enrollment is limited to 35 students per year. **Fee**

Animal and Plant Science (981) (optional LCCC credit for SAGR 113 Plant Propagation-Spring semester) **1.25 credit**

Students will apply knowledge of animal and plant science to the agriculture industry. They will be introduced to the value of production animals relative to the agricultural marketplace. Students will engage in animal classification and selection, body systems, along with animal welfare and behavior in relation to the production of animals. Students will learn principles of plant anatomy and physiology, and the role of nutrition, deficiencies and growing environment on plant production. Throughout the course, business principles and professional skills will be examined. Each student is required to complete a Supervised Agricultural Experience (SAE) program involving animals, crops, or job placement that is worth 0.25 credits and will take place outside of regular school hours. The course and lab work are worth one credit for a combined 1.25 credit hours. Students choosing to take the SAGR 113 in the spring semester (run concurrently) must be enrolled in the full year Animal and Plant Science course. **Prerequisite: Agriculture, Food and Natural Resources Prerequisite for SAGR 113 is proficient level on Accuplacer test Fee**

Business Management for Agricultural & Environmental Systems (985) (optional LCCC Course SAGR 112 Business Principles of Sustainable Agriculture - spring semester) (articulated credit with University of Northwestern Ohio) **1.25 credit**

Learners will examine elements of business, identify organizational structures and identify and apply management skills. Learners will develop business plans, financial reports and strategic goals for new ventures or existing businesses. Learners will use marketing concepts to evaluate the marketing environment and develop a marketing plan with marketing channels, product approaches, promotion and pricing strategies. Learners will practice customer sales techniques and apply concepts of ethics and professionalism while understanding related business regulations. The National FFA Organization is further emphasized. Approximately eight weeks of course will be devoted to agricultural mechanics lab projects, specifically plumbing & independent project construction. Each student is required to complete a Supervised Agricultural Experience (SAE) program involving animals, crops, or job placement that is worth 0.25 credits and will take place outside of regular school hours. The course and lab work are worth one credit for a combined 1.25 credit hours. Students choosing to take the SAGR 112 in the fall

semester (run concurrently) must be enrolled in the full year Business Management course.. **Prerequisite: Agriculture, Food and Natural Resources. Prerequisite for SAGR 112 course is proficient level on Accuplacer test. Fee**

Mechanical Principles (993)

1.25 credit

Students will engage in the mechanical principles utilized in animal and plant production systems. They will learn electrical theory, design, wiring, hydraulic and pneumatic theory, along with metallurgy in relation to hot and cold metals. Students will apply knowledge of sheet metal fabrication applicable to the agricultural industry along with identifying, diagnosing, and maintaining small air-cooled engines. Throughout the course, students will learn critical components of site and personal safety as well as communication and leadership skills. Each student is required to complete a Supervised Agricultural Experience (SAE) program involving animals, crops, or job placement that is worth 0.25 credits and will take place outside of regular school hours. The course and lab work are worth one credit for a combined 1.25 credit hours. **Prerequisite: Agriculture, Food and Natural Resources & Junior or Senior**

Agricultural and Environmental Systems Capstone (995)

1 credit

Students apply Agricultural and Environmental Systems program knowledge and skills in a more comprehensive and authentic way. Capstones are project/problem-based learning opportunities that occur both in and away from school. Students will participate in weekly current events blogs and monthly discussion during a Wednesday Falcon period. **Prerequisite: Must be a senior and enrolled in an Agricultural Course Fee**

Energy Systems Management (970) **Grades 11 & 12**

Students will apply basic principles of energy accounting, thermodynamics and heat transfer, energy conversion and efficiency to heating, power generation and transportation. Students will apply the principles and practices needed for managing renewable and non-renewable energy resources. Throughout this course, future energy systems and energy use scenarios are investigated, with a focus on promoting the use of renewable energy resources and technologies.

Environmental Science for Agriculture and Natural Resources (972) **Grades 11 & 12**

Students will study relationships between organisms and their environment. Principles of biogeochemical cycles, air-water-land relationships, non-point pollution, and wetlands will be applied. Students will examine fundamentals of resource development, agriculture sustainability, energy needs and pollution control. They will analyze and interpret data gathered from studies on the ecosystem. Throughout this course, students will develop responses to environmental problems and develop management strategies for responsible conservation and resource development.

Animal Health (971) **Grades 11 & 12**

Students will examine causes, symptoms, and treatment of common diseases with emphasis on developing preventative health management plans. Topics will include the study of pathogens, and classifying types of diseases and disorders. Students will perform animal health assessments and compare to standard characteristics. Throughout the course, students will utilize principles of technology to manage information systems, and research issues affecting the industry.

BUSINESS & TECHNOLOGY

<u>Course No.</u>	<u>Course Name</u>	<u>Credit</u>
276	Intro to Engineering	1
700	Innovation and Entrepreneurship	0.5
702	3D Design	0.5
703	Advanced Automation & Robotics	1.0
705	Intro to Broadcasting	1.0
	LCCC Intro to Business Administration	1.0

INTRO TO ENGINEERING (276) **Grades 9-10**

1 credit

This course will introduce students to the design process and the tools used in product development. Students will learn through first-hand experience the activities that engineers engage in through the design cycle. Development of design briefs, sketching, 3-D solid modeling and prototyping will provide the foundation for activities in Introduction to Engineering Design.

INNOVATION & ENTREPRENEURSHIP (700)

Semester Class 0.5 credit

Jump into the Shark Tank. Learn the Design Process as it relates to 3D printing, prototype production, and real-world problem solving. Students play the role of a Shark Tank entrepreneur by creating a product idea, developing a website to promote their product and creating a 3D prototype of their product. Students will be introduced to simple design software to help them develop, share, improve, and print classroom projects. Programming and web design will be integrated into the process. Students will understand programming language and the importance of web standards, work with graphics, and be able to critically evaluate website quality.

3D DESIGN (702)

Semester Class 0.5 credit

This course focuses on designing and printing 3D models using additive manufacturing technologies for applications such as prototyping, rapid tooling, and rapid manufacturing. Topics include 3D scanning, designing for additive processes and material limitations, equipment operation, and process troubleshooting.

ADVANCED AUTOMATION & ROBOTICS (703)

1 credit

This course will introduce students to advanced robotic mechanism builds and autonomous block and text programming. Students will design and build robots to participate in classroom competitions. Careers in robotics engineering will be explored and applied to current uses in society.

LCCC-INTRO TO BUSINESS ADMINISTRATION BADM 155 (709)

1 credit

This course provides an introduction to the basic fundamentals of business including: entrepreneurship, marketing, international business, economics, and investments. Students will learn critical thinking and analytic skills that will prepare them for their future careers. Students will be introduced to the dynamic world of business and will take on the role of a business professional faced with real-world, workplace challenges. Video case studies will also be used to analyze key concepts that are used in today's business environment.

INTRO TO BROADCASTING (705)

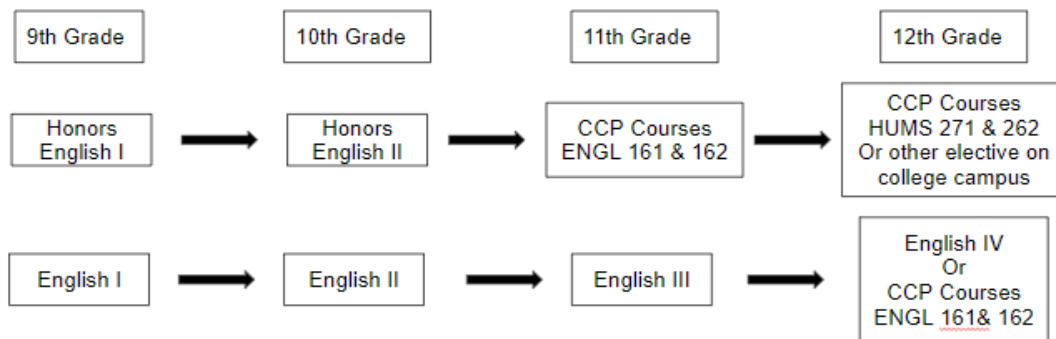
1 credit

Introduction to Broadcasting familiarizes students with the basic principles of broadcast production and new media. This course is for students who have a general interest in broadcast journalism and production. In addition, students must be self-motivated, dependable, and able to work well as a team. Students are responsible for the production of video stories as well as special interest and documentary projects including script writing, video recording, and video editing. Students will gain an understanding of both pre-production, on-air, and post production roles and responsibilities of news broadcasting. By the end of the course, students should have a clear understanding of their own strengths in order to move into the next course where they will specialize in a specific production job.

ENGLISH

<u>Course No.</u>	<u>Course Name</u>	<u>Credit</u>
101	English I	1
102	English II	1
103	English III	1
104	English IV	1
107	Honors English I	1
108	Honors English II	1
111	LCCC – College Composition I	1
112	LCCC – College Composition II	1
114	LCCC – Introduction to Mythology	1
113	LCCC - Introduction to Great Books	1
119	Technology and Society	.5 (Fall)
120	Drama	.5 (Spring)
151	Film as Literature	.5 (Semester)
152	Debate and Speech	.5 (Semester)

The chart below shows the expected course progression in Firelands High School English courses..



ENGLISH I (101)

1 credit

This is a required course that covers both literature and writing. It includes a review of writing skills and emphasis on expository essays. The course includes weekly lessons from a vocabulary text. English I also presents an introduction to the basic types of literature: short story, non-fiction essays, drama, the epic, the novel, and poetry. **Fee**

ENGLISH II (102)

1 credit

This is a course consisting of an overall survey of the literature of the great writers of the world. The material covered includes the basic types of fiction: the short story, poetry, and drama, and the novel; and basic types of nonfiction: biography, autobiography, essay, and article. Time will be spent on reading, composition, and limited grammar review. Students will also have some experience with public speaking, especially with presentations of their original works. There are also reading workshops that include journal writing. **Prerequisite: English I Fee**

ENGLISH III (103)

1 credit

English III focuses on the history and development of American literature and includes a study of some of the best novels, plays, poems, and short stories of our American writers. Students will also develop skills in vocabulary, critical thinking and composition. **Prerequisite: English II Fee**

ENGLISH IV (104)

1 credit

This course includes skills necessary for refining the writing process with general theme writing; research paper writing; critical writing and evaluation; and vocabulary study. Also included are an in-depth study of English literature and authors in historical context, outside reading, and some speech. **Prerequisite: English III Fee**

HONORS ENGLISH I (107)

1 credit

This is an accelerated survey course that presents the following types of literature: the short story, nonfiction, drama, the epic, the novel and poetry. Vocabulary will also be a part of the curriculum. This is a writing intensive course and students who enroll in Honors English are expected to read and write extensively. Students are also expected to actively participate in class discussions. Class participation will be part of each quarter's grade. Since this is an honors course, grading will be based on a four point five (4.5) - grading scale instead of the standard four-point scale. Prior to the start of the school year, students will be asked to complete an outside reading assignment. **Prerequisite: Students are recommended for this course based on their language arts grades during their eighth grade year, a written test given in the winter of their eighth grade year and the recommendation of their eighth grade language arts teacher. If needed, additional test scores and student work will be taken into consideration. Fee**

HONORS ENGLISH II (108)

1 credit

This is an advanced course that continues an accelerated survey of world literature and introduces students to American literature through a study of the Puritan period and a selection of classic American novels. Vocabulary will also be a part of the curriculum. This is a writing intensive course and students who enroll in Honors English II are expected to read and write extensively. Students are also expected to actively participate in class discussions. Since this is an honors course, grading will be based on a four point five (4.5) - grading scale instead of the standard four-point scale. Prior to the start of the school year, students will be asked to complete an outside reading assignment. **Prerequisite: B or better in English/Honors English I and the recommendation of their English I teacher. Fee**

LCCC – COLLEGE COMPOSITION I ENGL 161 (111)

1 credit

An introduction to fundamental college-level skills in academic reading and writing. Summary, analysis, synthesis and research documentation are emphasized, along with critical thinking and collaborative learning. **Prerequisite: Proficient level on Accuplacer Test.**

LCCC – COLLEGE COMPOSITION II ENGL 162 (112)

1 credit

A writing course continuing the practice of skills introduced in LCCC – College Composition I, as well as strategies of argumentation and secondary research leading to a research paper. **Prerequisite: ENGL 161**

LCCC – INTRODUCTION TO MYTHOLOGY HUMS 271 (114)

1 credit

A survey of major figures, motifs and themes of mythology with attention to theories of myth and to modern literature using myths. Humanities core course. **Prerequisite: Previous or concurrent enrollment in ENGL 161**

LCCC – INTRODUCTION TO GREAT BOOKS: EARLY MODERN TO THE 20TH CENTURY HUMS 262 (113)

1 credit

A study of great works from the early modern period of the 20th Century, including works in philosophy, literature, religion, and the social sciences. Instruction will follow the Socratic example of generating discussion through dialectical inquiry. Readings may change from semester to semester. **Prerequisite: Previous or concurrent enrollment in ENGL 161**

ENGLISH ELECTIVES – WILL NOT REPLACE CREDIT IN REQUIRED ENGLISH COURSES

TECHNOLOGY AND SOCIETY (119)

Semester Course (Fall – ½ Credit)

This course focuses on technological advancements and how they play a role in the society we live in. Students will discuss the benefits and dangers of the technology we use. The course will focus on social media, online security, privacy, and new technology. Students will debate the ethical and social issues regarding the technology that we use.

DRAMA (120)

Semester Course (Spring – ½ Credit)

Students will learn the basics of acting and producing a live theatre show. Students will examine well-known theatre productions and playwrights. They will practice improvisation techniques and develop their acting skill through the performance

of monologues and scenes. Students will use these skills to put on a live theater performance involving blocking, costumes, and prop design in the spring production.

FILM AS LITERATURE (151) Grades 10-12

Semester Course (1/2 Credit)

In this semester-long course, students will view and analyze a variety of films. Students will learn to recognize story-telling elements and make critical observations about social, historical, economic, political, and artistic issues presented in cinema.

DEBATE AND SPEECH (152) Grades 10-12

Semester Course (1/2 Credit)

In this course, students will learn the skills of argumentation, debate, and critical thinking. This course provides instruction and practice in the art of formal and informal debate and focuses on the in-class debating of major issues surrounding current events. Students will also be immersed in the experience of speaking one-on-one, in partners, and in front of larger groups by the end of their learning process.

FINE ARTS

<u>Course No.</u>	<u>Course Name</u>	<u>Credit</u>
602	Art I	1
604	Art Fundamentals	.5
607	Art Appreciation	.5
610	Art History	.5
615	Art II	1
620	Art III	1
625	Art IV	1
630	Advanced Art	1
635	AP Art & Design	1
649	Jazz Band (Open to Band Students Only)	1
650	Marching and Symphonic Band	1
655	Music History/Music Theory	.5
656	Music and Multimedia Technology I	1
658	Music and Multimedia Technology II	1
680	Concert Choir	1
686	Honors Choir	1
690	Freshmen Girls' Choir	1

STUDIO VISUAL ART

Studio Visual Art courses provide the study of the knowledge, skills and processes for observing, creating, responding and communicating through a variety of 2-dimensional and 3-dimensional media in visual art. Art production and the construction of meaning in visual artworks through study and writing are complementary learning activities throughout the program. The Studio Visual Art Courses at FHS include a semester class for students interested in trying art for one semester and year-long leveled classes Art 1 through Advanced Art for students enrolling in art for three or four years.

STUDIO ART MAJOR COURSE SEQUENCE

ART I (602) Grade 9

1 credit

Art I begins the sequence of study for art majors. Art majors are students who schedule for three or four years of art with the opportunity to prepare a portfolio for admission into an art college. The course is designed to provide students with independent problem-solving concepts manipulating the principles of design through various media and techniques. Writing artists' statements and critiques are covered in Art I. Weekly sketching and journaling are required. **Fee**

ART II (615) Grades 10 – 12

1 credit

This full-year course will help students develop technical proficiency in the production and appreciation of visual art. Students will use two-dimensional, three-dimensional and digital media to develop as artists. Writing artists' statements and critiques continue. There is a focus on in-depth reading and writing in art history. Exploration of career opportunities in art is introduced. Weekly sketching and journaling are required. **Fee**

Prerequisite: Successful completion of Art I or Art Fundamentals

ART III (620) Grades 11 - 12

1 credit

The third year course is for students wishing to continue practicing visual art after high school, as an amateur, professional or connoisseur of visual art. The students will continue work in a broad range of media and explore a specialization. Students are introduced to higher-level media and processes. Students continue to write artists' statements and critiques, and learn to

write project proposals. Reading and writing in art continues in depth. Students are required to build a portfolio of their work to explore career options in art. Weekly sketchbook requirement continues. **Fee**

Prerequisite: Successful completion of Art II and art teacher recommendation.

ART IV (625) Grade 12

1 credit

The fourth year of art is for students wishing to continue practicing visual art after high school, as an amateur, professional or connoisseur of visual art. The students will continue work in a broad range of media, develop a specialization and refine their portfolios. Students continue to write artists' statements, critiques, and project proposals. Reading and writing in art continues in depth. Weekly sketchbook requirement continues. **Fee**

Prerequisite: Successful completion of Art III and art teacher recommendation.

ADVANCED ART (630) Grade 12

1 credit

This course is for students who have accelerated beyond Art IV. The full-year course is for students wishing to continue practicing visual art after high school, as an amateur, professional or connoisseur of visual art. The students will continue work in a broad range of media, develop a specialization and refine their portfolios. Students continue to write artists' statements, critiques, and project proposals. Reading and writing in art continues in depth. Weekly sketchbook requirement continues. **Fee**

Prerequisite: Successful completion of Art IV and art teacher recommendation.

AP STUDIO ART (635) Grade 12

1 credit

The Advanced Placement (AP) Studio Art Course is a rigorous college-level course for highly motivated senior students who are interested in studying art or design at the post-secondary level to place out of introductory level college art courses. AP Studio Art through the College Board is not based on a written exam; instead, students submit a combination of digital and actual portfolios for evaluation in May. Students will choose a focus and submit portfolios in the areas of 2-Dimensional Design (24 works), 3-Dimensional Design (16-20 works) or Drawing (24 works). Students enrolled in AP Art are expected to submit a portfolio for assessment in May. **Fee for both materials and AP Assessment Fee**

Prerequisite: Successful completion of Art III or Art IV with an A and art teacher recommendation.

VISUAL ART SPECIALTIES

These courses provide focused study in specific topics of the world of visual art in a non-studio format.

ART FUNDAMENTALS (604) (studio) Grades 9-12

.50 credit

Art Fundamentals is a studio art course designed for students wishing to explore art-making to fulfill the fine arts credit requirement for graduation. This semester course includes condensed studio experiences in drawing, design, ceramics into 3-dimensional form, printmaking, painting and additional experimental media. Art elements, principles, art history and art criticism are covered. **Fee**

ART APPRECIATION (607) (non-studio) Grades 9 - 12

.50 credit

This fast-paced course examines the world of visual art beyond history and creating. This course uses works of American visual art from various historical, cultural and social contexts to delve into the worlds of collecting, conserving and critiquing. The use of technology, video, reading, speakers and lectures enable students to develop and present their own views and responses to specific topics and to discuss these viewpoints with others through conversation, writing, activities and condensed projects.

ART HISTORY (610) (non-studio) Grades 9 - 12

.50 credit

This fast-paced course introduces visual art history over a 2.5 million year period. Key western artworks are studied chronologically and thematically with emphasis on subject matter, concepts, and the formal, technical and expressive aspects of the works. The use of technology, video, reading, speakers and lectures enable students to become familiar with the connections between the development of art and events in history through conversation, writing, activities and condensed projects.

PERFORMING ARTS

INSTRUMENTAL MUSIC - MARCHING AND SYMPHONIC BAND (650) 1 credit

Performing music ensemble. Performances include school concerts, sports events, and special band events. Program focuses on musicianship, tone production, pitch, rhythm, and basic theory. Must be willing to attend all performances and extra rehearsals as necessary. Students must have participated in middle school band, and be able to demonstrate basic musicianship. Students who would like Honors Credit in this area may apply for it through the Music Department, and must meet the listed criteria on the application sheet to receive Honors Credit. **THIS IS A PAY TO PARTICIPATE ACTIVITY WITH A FEE OF \$175. (Students who successfully complete two seasons are eligible for the Physical Education Exemption)**

MUSIC HISTORY

Semester Class (.5 Credit)

This is a 1 semester course that will cover music throughout time. We will discuss the influence music has had on significant events, as well as its impact on society and culture.

MUSIC THEORY

Semester Class (.5 Credit)

This is a 1 semester course that will cover music composition and music structure. Students will be able to complete basic compositions, and understand the relationship to music, and music writing. (.5 credit) **(Class Fee of \$25 for workbooks)**

MUSIC and MULTIMEDIA TECHNOLOGY I (656)

1 credit

In this course you will explore music through the use of technology. Students will learn the evolution of music technology and to mix and re-mix music using basic audio software and create original music using easily accessible technology. Students will learn the basics of Podcasting and Sound production. **(Class Fee of \$20 for class materials including headphones and USB drive)**

MUSIC and MULTIMEDIA TECHNOLOGY II (658)

1 credit

In this course you will explore music through the use of technology. Students will mix and re-mix music using more advanced audio software and create original music, podcasts, and produce audio school news programs using audio technology. Students will learn more advanced Podcasting and Sound production. ***This course will be offered beginning with the 2022-2023 school year. **(Class Fee of \$20 for class materials including headphones and USB drive) Prerequisite Music Studio or Music and Multimedia Technology I.**

CONCERT CHOIR (680)

1 credit

Performing music ensemble. Performances include school concerts, competitions, and special events. Program focuses on music literacy including: vocal production, sight-reading, and basic theory. Must be willing to attend all performances and extra rehearsals as necessary. Must purchase required concert attire.

HONORS CHOIR (686)

1 credit

Performing music ensemble. Performances include school concerts, competitions, and special events off campus. Program focuses on music literacy including: vocal production, sight-reading, and basic theory. Must be willing to attend all performances and extra rehearsals as necessary. Must purchase required concert attire. **By audition only. Class size limited. Prerequisite: One year of Concert Choir. – This class will be weighted as an Honors Class.**

FRESHMEN GIRLS CHOIR (690)

1 credit

Performing music ensemble. Performances are generally limited to school concerts. Program focuses on music literacy including: vocal production, sight-reading, and basic theory. Must be willing to attend all performances and extra rehearsals as necessary. Must purchase required concert attire.

WORLD LANGUAGES

WORLD LANGUAGE CLASSES ARE GEARED FOR COLLEGE PREP STUDENTS

<u>Course No.</u>	<u>Course Name</u>	<u>Credit</u>
755	French I	1
760	French II	1
765	French III	1
770	French IV	1
775	Spanish I	1
780	Spanish II	1
785	Spanish III	1
790	Spanish IV	1
777	Artesanías (Handicrafts)	0.5 (1 st Semester)
778	Comidas (Foods)	0.5 (2 nd Semester)

FRENCH I (755)

1 credit

This beginning course consists of learning how to read, speak, listen, and write the French language. Emphasis in this course is on learning basic expressions for simple conversation in French.

FRENCH II (760)

1 credit

This course consists of reading, speaking, listening, and writing. More emphasis is placed on these skills along with grammar, past tense and imperfect tense. **Prerequisite: C average or higher in French I.**

FRENCH III (765)

1 credit

This intermediate course consists of reading, speaking, listening and writing at a higher level than previous courses. There is a continuation of grammar and advanced tense work as well as review of structures learned in previous courses. Students will also study French literature, and discuss and write about various themes and ideas as they relate to French-speaking culture as well as their own. More emphasis in this course is placed on using the language independently. **Prerequisite: French II with at least a C average.**

FRENCH IV (770)

1 credit

This intermediate course consists of reading, speaking, listening and writing at a higher level than previous courses. There is a continuation of grammar and advanced tense work as well as review of structures learned in previous courses. Students will also study French literature, and discuss and write about various themes and ideas as they relate to French-speaking culture as well as their own. More emphasis in this course is placed on using the language independently. **Prerequisite: French III with at least a C average.**

***** NOTE FRENCH III & FRENCH IV:**

The material covered in French III & French IV is alternated yearly to accommodate both levels of language acquisition since the students from both levels are in the same class together.

SPANISH I (775)

1 credit

Vocabulary, correct pronunciation and knowledge of the fundamental rules of Spanish grammar are emphasized. Basic conversational use of the language is practiced. The geography and customs of Spanish-speaking countries are studied.

SPANISH II (780)

1 credit

A continuation of Spanish I, this course stresses correct grammatical construction in both oral and written language. The culture of Spanish-speaking countries is studied through reading. **Prerequisite: At least a C average in Spanish I and teacher recommendation**

SPANISH III (785) ***

1 credit

This course is intended for those students who want to improve written and reading skills in Spanish. Short stories and novels are read; and some more advanced grammar concepts are introduced or reviewed. Creative written projects and a few verbal presentations are required within the course work. Cultural items are discussed where applicable. **Prerequisite: Spanish II/III with at least a C average and teacher recommendation**

SPANISH IV (790) ***

1 credit

This course is intended for those students who want to improve their practical speaking skills. Travel vocabulary and situations are studied. Some short stories and novels are read; and there are some more advanced grammar concepts introduced or reviewed. Creative verbal conversations, a few written projects and a few verbal presentations are required within the course work. Cultural items are discussed where applicable. **Prerequisite: Spanish II/III with at least a C average and teacher recommendation**

***** NOTE SPANISH III & SPANISH IV:**

The material covered in Spanish III & Spanish IV is alternated yearly to accommodate both levels of language acquisition since the students from both levels are in the same class together. Students taking Spanish III one year will get the concepts described for that level and then will get the concepts described in Spanish IV the next year. Students who have the material from the description of Spanish IV during their 3rd year of World Language learning will get the material from the description of Spanish III their 4th year of taking World Language. On both levels, different grammar concepts, short stories, novels and projects are introduced each year and are intended toward the more practical application and usage of the language—one year in a more written form, the other in a more spoken form. A student choosing either of these two courses should look at **BOTH** descriptions and understand that the material they will be learning will be from one or the other, whichever year is in the rotation.

WORLD LANGUAGE ELECTIVES

THESE COURSES WILL BE FOR GENERAL ELECTIVE CREDIT

ARTESANÍAS (Handicrafts) (777)

(1st Semester Only - .5 Credits)

This course is an exploration of the various hand crafted items made/produced in Hispanic cultures. All perspective areas of study will include (but not be limited to): metals/jewelry, clay/pottery, stonework, woodworking, textiles, paper, glass and basket weaving. How each was developed and used within each Hispanic country will be a focus. Students taking this course will assume financial responsibility for any craft items for the projects they individually develop/produce throughout the semester. **Pre-requisite: Spanish 1—full year—C or higher; and/or teacher recommendation**

COMIDAS (foods) (778)

(2nd Semester Only – 0.5 Credits)

For this course, students will learn vocabulary related to the Hispanic culinary world through written activities and skits. Also, students will explore the use of food in Spain, Mexico, the Caribbean Islands, Central and South America; as well as its use during major Hispanic festivals. Some costs will be incurred for the construction of a piñata and participation in food tasting experiences throughout the semester. **Pre-requisite: Spanish 1—full year—C or higher; and/or teacher recommendation.**

HEALTH & PHYSICAL EDUCATION

Sports and Physical Education Credit All Sports, Marching Band & Cheerleading

All athletes are automatically enrolled.

A student has the opportunity to earn an exemption for physical education by completing and turning in by May 1 a Physical Education Exemption form. A student must complete the season in good standing to achieve a passing mark which will record on their transcript as a P with 0 credit value. Athletes must complete two separate sports seasons to receive the exemption/credit.

- Cheerleading for football and basketball are viewed as two separate seasons and would count as completion.
- A basketball player who plays two seasons would complete the requirement.
- Marching Band members must complete two fall marching seasons.
- You may not take one PE class for 1/4 credit and exempt 1/4 credit.

Students may still opt to take a physical education course for credit. Physical Education Exemption forms are available in the School Counseling Office.

<u>Course No.</u>	<u>Course Name</u>	<u>Credit</u>
500	Health	.50
510	Physical Education	.25
704	Lifetime/Recreation PE	.25
515/516	Strength and Conditioning I and II	.50 (Two Semesters)

HEALTH (500) semester course 0.5 credit

Health is a required semester course designed to educate and motivate students towards living a healthy lifestyle. The health curriculum includes mental, social, and physical aspects. Topics to be covered include body systems, mental and emotional development, maturity and sex education, stress and social development, diseases, nutrition, alcohol, drugs and tobacco, and first aid and safety. Throughout each unit, consumer health and health careers will be discussed as they relate to each topic. Class meets daily for one semester.

PHYSICAL EDUCATION (510) 0.25 Credits per semester

Physical Education is a semester course and will include football, soccer, speedball and basketball, floor hockey, ultimate Frisbee, whiffle ball, weight lifting and volleyball. For each of the team sports, the origin, history, rules of the game, scoring, strategies will be discussed and practiced. Learning how to play the games correctly and using fundamentals learned will allow the student to enrich their own experience while playing and competing with others during the team sports. Quizzes and tests will be a part of the academic process as well as participation during the course. A change of clothes and tennis shoes are required. Class meets daily for one semester. No Prerequisite is required for this course.

LIFETIME/RECREATION PE (704) 0.25 Credits per semester

This is a semester course and will include corn hole, evasive games (tag, capture the flag), pickleball, 4-square, badminton, table tennis, low impact exercise/walking and ladder golf. These unique backyard games will be introduced to the students. Learning the rules, scoring and strategies of each game will be the focus of this lighter side of competition. Students will be able to enjoy a less competitive and individual sport setting. Quizzes and tests will be a part of the academic process as well as participation in the activities. Students do not have to change clothes for class, comfortable clothes and tennis shoes are required. Class meets daily for one semester.

STRENGTH AND CONDITIONING I & II FOR ATHLETES (515/516) 0.5 Credits per semester

An elective Physical Education Course that is designed specifically for students at Firelands High School who wish to pursue athletics or a similar field in college. Students will receive training in strength and conditioning, designed to fit into their specific athletic program as well as leadership training in a classroom setting. Students who take this class **ARE EXPECTED** to participate in the conditioning program every day, under the direction of the instructor. This class is expected to meet during 10th and is available to all students in grades 9-11 who expect to pursue a career in the athletic field (trainer, therapist, etc.), 9th

– 11th graders that are currently participating in athletics, or 11th -12th graders that plan to participate in college athletics. 12th Graders will be allowed by teacher interview only.

MATHEMATICS

<u>Course No.</u>	<u>Course Name</u>	<u>Credit</u>
210	Algebra I	1
211	Honors Algebra I	1
213	LCCC – College Algebra	1
220	Geometry	1
223	Honors Geometry	1
224	Algebra II – A	1
225	Algebra II	1
227	Algebra II – B	1
228	Honors Algebra II	1
230	Pre-calculus	1
232	LCCC – Pre-Calculus	1
233	Transition to College Mathematics	1
234	LCCC – Statistics	1
235	AP Calculus	1
706	Business Math	1.0
443	LCCC – Personal Finance	1

ALGEBRA I (210)

1 credit

This course consists of a study of linear functions (their solutions and graphs) and the solutions of quadratic equations. Heavy emphasis is placed on applying algebra. The student needs a strong background in basic arithmetic (able to work with fractions and decimals). Upon successful completion of this course, students should enroll in Geometry. *It is recommended students own a Texas Instrument 84+ for this and all future math courses.*

HONORS ALGEBRA I (211)

1 credit

This course is designed for students with better than average mathematical ability and is a fundamental step to Honors and CCP level mathematics. This course moves at a faster pace than the Algebra I course and has a higher level of rigor attached. Students are expected to adhere to a high level of scholarship and will be exposed to deeper mathematical topics, multi-level problems, and extensive use of technology. This course consists of a study of linear functions (their solutions and graphs) and the solutions of quadratic equations. Heavy emphasis is placed on identifying facts in multi-faceted problems and applying algebra skills to find solutions. The student needs a strong background in basic arithmetic (able to work with fractions and decimals). Upon successful completion of this course, students should enroll in Honors Geometry. *It is recommended students own a Texas Instrument 84+ for this and all future math courses.* **Prerequisite: Math 8 grades of B or better (C only with recommendation of teacher)**

GEOMETRY (220)

1 credit

This course is designed for students with average mathematical ability and is a fundamental step to Honors and CCP level mathematics. The first semester is primarily concerned with the vocabulary of geometry, inductive and deductive reasoning, and formal proofs. The second semester involves the study of more specialized types of figures, including geometric solids. This course also includes an introduction to trigonometry, constructions and coordinate geometry. It is taught with a balance of theory and applications. *It is recommended students own a Texas Instrument 84+ for this and all future math courses.*

Prerequisite: Algebra I

HONORS GEOMETRY (223)

1 credit

This course is designed for students with better than average mathematical ability and is a fundamental step to Honors and CCP level mathematics. This course moves at a faster pace than the Geometry course, and has a higher level of rigor attached. The first semester is primarily concerned with the vocabulary of geometry, inductive and deductive reasoning, and formal proofs. The second semester involves the study of more specialized types of figures, including geometric solids. This course also includes an introduction to trigonometry, constructions and coordinate geometry. It is taught with a balance of theory and applications. *It is recommended students own a Texas Instrument 84+ for this and all future math courses.*

Prerequisite: Algebra I (from 8th grade) with a B average or better or Algebra I (from high school) with a B average or better and teacher recommendation.

ALGEBRA II (225)

1 credit

Algebra II provides a firm foundation of the basic skills and concepts for serious mathematics students who plan to continue in their study of mathematics as well as those choosing other areas of study. This course furthers the understanding of the real number system as studied in first year algebra and extends into the study of the complex number system. It includes an

extensive study of systems and functions-quadratic, square root, cubic, polynomial and logarithmic. There is also an introduction to CCP level mathematics. It is recommended students own a Texas Instrument 84+ for this and all future math courses.
Prerequisite: Algebra I and Geometry

ALGEBRA II PARTS A AND B (224 & 227)

1 credit

This is an Algebra II class geared toward students who would succeed with a slower pace, as this class teaches Algebra II over a two-year period. Students are encouraged to sign-up for this class if they would succeed with a slower pace, which covers all of the Algebra II topics mentioned above. Students should be aware that this class must be completed over a two-year period to meet the Algebra II Graduation Requirement, as well as this class IS NOT certified by the NCAA Clearinghouse for Division I and II College Athletic Eligibility. **Prerequisite: Teacher and Counselor Recommendation**

HONORS ALGEBRA II (228)

1 credit

Algebra II provides a firm foundation of the basic skills and concepts for the serious mathematics students who plan to continue in the field at the CCP level. This course moves at a faster pace than the Algebra II course, and has a higher level of rigor attached. This course furthers the understanding of the real number system as studied in first year algebra and extends into the study of the complex number system. It includes an extensive study of systems and functions-quadratic, square root, cubic, polynomial and logarithmic. There is also an to CCP level mathematics. . It is recommended students own a Texas Instrument 84+ for this and all future math courses. **Prerequisite: Honors Geometry with a B average or better or Algebra I and Geometry with a B average or better in each and teacher recommendation**

PRE-CALCULUS (230)

1 credit

A course designed to prepare the college bound junior or senior to enroll in a calculus course in their first semester. Topics include: trigonometry, functional analysis, exponential and log functions, matrices, conic sections, an introduction to integral calculus. Students are required to have their own a Texas Instrument 84+ graphing calculator for this course.
Prerequisite: Algebra I, Geometry, and Algebra II with a C average or better in each

TRANSITION TO COLLEGE MATHEMATICS Grade 12 (233)

1 credit

Transition to College Math is a course to help prepare seniors to effectively handle entry-level mathematics in college. **The course will review Algebra I and Algebra II topics to give students a strong algebra background who need additional work in these areas.** Topics include equations and inequalities, exponents and scientific notation, coordinate graphing, linear systems, polynomials, and rational expressions. Students are required to have their own Texas Instrument - 84+ graphing calculator for this course. **Prerequisite: 3 credits earned in mathematics and senior standing.**

AP CALCULUS (235)

1 credit

This fast paced class is for the advanced student with a solid mathematical background. Topics to be covered include: graph analysis, function limits, continuous functions, first and second derivatives at points and as functions, derivative application, properties of integrals, applications of integrals, and The Fundamental Theorem of Calculus. A graphing calculator (TI 84+ or TI 89) is required for this class. All students who sign up for this class must take the AP exam at a cost to the student, which will be added to school fees. Students must score at least a three or better on the AP Exam to be given college credit in this course. Please check with your college or university for their specific AP score requirements. A summer math review is also required before the first day of class; contact the instructor for additional information. **Prerequisites: C or better in Pre-Calculus, or LCCC MTHM 171 & MTHM 172, or a Teacher recommendation. – Fee – AP Exam Fee**

BUSINESS MATH (706)

1 credit

This course integrates mathematical concepts with common business usage in the areas of accounting, personal finance, economics, marketing, international business, management, and entrepreneurship. This course uses technology and real-world experiences to teach students the basic accounting practices and procedures for operating a business. Students will learn skills that all employers look for in employees including problem-solving, critical thinking and business ethics. Concepts taught include journalizing and posting transactions, preparing financial statements, recording petty cash, and establishing a payroll.

LCCC – COLLEGE ALGEBRA MTHM 171 (213)

1 credit

Designed primarily for the calculus-bound student. Study of algebraic functions, equations, systems of equations, inequalities, matrices, partial fractions, exponential and logarithmic functions. Not to be taken if credit for MTHM 175 has been earned. A graphing calculator (TI 84+ or TI 89) is required for this class. LCCC Mathematics core course. **Prerequisite: High school geometry and Proficient level on Accuplacer Test.**

LCCC – PRECALCULUS MTHM 172 (232)

1 credit

For the calculus-bound student. A study of trigonometric functions and their graphs; trigonometric identities and equations; conic sections; polar and parametric equations; mathematical induction; and the binomial theorem. Not to be taken if credit for MTHM 175 has been earned. A graphing calculator (TI 84+ or TI 89) is required for this class. LCCC Mathematics core course. **Prerequisite: LCCC MTHM 171**

LCCC – STATISTICS MTHM 168 (234)

1 credit

This course provides a non-calculus based introduction to statistical thinking and statistical methods. The topics discussed in the course include: data collection, data description, basic probability, sampling distributions, probability distributions, confidence intervals and hypothesis tests. An emphasis is placed on using technology to solve problems involving real data and hands-on projects are used throughout the course. A graphing calculator (TI 84+ or TI 89) is required for this class.
Proficient level on Accuplacer Test.

LCCC – PERSONAL FINANCE ECNM 113 (443)

1 credit

An analysis of the consumer's role in our economic system. Topics covered include: money management, budgeting, saving and borrowing, use of credit, financing long-term purchases, insurance and investments, taxes and retirement and estate planning.

SCIENCE DEPARTMENT

<u>Course No.</u>	<u>Course Name</u>	<u>Credit</u>
300	Physical Science	1
305	Biology I	1
308	Honors Biology	1
315	Chemistry	1
319	Honors Pre-AP Chemistry	1
324	AP Chemistry	1
325	Biology II	1
320	Physics	1
323	A.P. Physics1	1
321	LCCC - Anatomy and Physiology I	1
322	LCCC - Anatomy and Physiology II	1
326	Geology & Astronomy	1

PHYSICAL SCIENCE (300)

1 credit

Basic concepts of chemistry, physics, and earth science are covered throughout the year. Some of the topics learned in this course include the study of matter, motion, force, energy, waves, earth, and the universe. The continuous changes and advances happening in the world of science will also be monitored periodically throughout the year. **Fee**

BIOLOGY I (305)

1 credit

Required course for **all** freshmen. Biology is the science that studies life. Ecology, Populations, Biochemistry, Evolutions, Genetics, Photosynthesis, Cellular Respiration, and Cell Structure and Function are topics dealt with in this course. **Fee**

HONORS BIOLOGY (308)

1 credit

This rigorous, college bound course, is for students who achieved an A in 8th grade Science. This course will cover topics such as Ecology, Populations, Biochemistry, Evolutions, Genetics, Photosynthesis, Cell Respiration, and Cell Structure and Function will be covered at a level of deep understanding. Emphasis will be placed on analyzing factual-based text and completing labs, utilizing higher order writing skills that let students synthesize class and lab results at a higher order of knowledge. Students completing this class should enroll in courses including Honors Physics and BIO 121/122, which is the LCCC Anatomy and Physiology course. **Fee**

CHEMISTRY (315)

1 credit

A full year course involving the study of matter and the changes it undergoes. Topics include the structure of the atom, ionic and covalent bonding, the periodic table, the mole concept, chemical reactions, and stoichiometry. Recommended for students interested in a career in medicine or engineering. **Prerequisite: C average or better in Biology. Fee**

HONORS PRE-AP CHEMISTRY (319)

1 credit

Pre-AP Chemistry is a first-year Chemistry course which focuses on students developing a deep conceptual understanding of matter and energy at the molecular level by asking students to explain their macroscopic observations using particulate-level reasoning. Students will begin their exploration of matter by observing and measuring macroscopic properties of everyday materials and progress throughout the course to explore deeper and more detailed perspectives of the particle nature of matter. Pre-AP Chemistry motivates students to be active participants in applying critical thinking and mathematical skills as they engage in context driven mathematics, data analysis, modeling, and productive collaboration with their peers.

Prerequisite – B or better in Honors Biology or Biology and a teacher recommendation. There is no AP Exam with this course. Fee.

AP CHEMISTRY (324)

1 credit

This is a second year chemistry course. AP Chemistry is an introductory college-level chemistry course. Students cultivate their understanding of chemistry through inquiry-based lab investigations as they explore the four Big Ideas: scale, proportion, and quantity; structure and properties of substances; transformations; and energy. All students who sign up for this class must take the AP exam at a cost to the student, which will be added to school fees. Students must score at least a three or better on the AP Exam to be given college credit in this course. Please check with your college or university for their specific AP score requirements. **Prerequisite – B or better in Chemistry or Honors Pre-AP Chemistry and a science teacher recommendation. Fee – Course and AP Exam.**

BIOLOGY II (325)

This course is a continuation of Biology I. Biology II includes taxonomy, viruses, kingdoms, body systems, and ecology. Dissection of a crayfish, frog, and cat is required. **Prerequisite: Biology I Fee**

PHYSICS (320) Grades 11-12

1 credit

Physics is the study of the natural universe and the laws and theories that govern it. The physics course provides students with a general knowledge background of the fundamental areas of physics such as motion, light, relativity, and nuclear physics. Topics are developed conceptually and then are supported mathematically. This is a hands-on laboratory course that develops students' critical thinking skills through laboratory reporting and problem solving. **Prerequisites: C or better in Algebra I and Geometry. Fee**

A.P. PHYSICS 1 (323)

1 credit

This course focuses on the interconnections between the various strands and units contained in the course syllabus and how each contributes to the "Big Ideas" that provide a core foundation for this physics course. Problem solving techniques and strategies are fine-tuned throughout the year, and students are continually tasked with connection physics application learned in different units in order to synthesize solutions to complex problems. All students who sign up for this class must take the AP exam at a cost to the student, which will be added to school fees. Students must score at least a three or better on the AP Exam to be given college credit in this course. Please check with your college or university for their specific AP score requirements. **Prerequisite: B or better in Geometry and/or Algebra II and a teacher recommendation. Also can concurrently be taking Algebra II. Fee – AP Exam Fee**

LCCC - ANATOMY AND PHYSIOLOGY I (321) BIOG 121 Grades 11-12 1 credit

This course offers an introduction to cell biology and histology, as well as an in-depth study of the following human organ systems: integumentary, skeletal, muscular, nervous (including special senses) and endocrine. This course is intended primarily for allied health and nursing associate degree students, sports and fitness management students and science majors. Laboratory (involving dissection of specimens and use of pre-dissected cats) required. LCCC Natural Science core course (C3, IN1, IN5) **Prerequisite: Proficient level on Accuplacer Test.**

LCCC - ANATOMY AND PHYSIOLOGY II (322) BIOG 122 Grades 11-12 1 credit

This course is a continuation of Anatomy and Physiology I. The structure and function of the following human organ systems are examined: reproductive (including embryology and fetal development), digestive, cardiovascular, lymphatic (including immunity), respiratory, and urinary (including fluid/electrolyte and acid/base balance). Cadaver-based laboratory required. LCCC Natural Science core course. (C3, In1, IN5) 4 college credit hours from LCCC **Prerequisite: Anatomy and Physiology I.**

GEOLOGY & ASTRONOMY (326)

1 credit

This is a year-long course giving students the opportunity to develop a knowledge and understanding of the Earth, as well as the solar system, galaxy, and universe in which we live. The first semester will be spent exploring the physical geology of the Earth, including topics such as Earth's history, plate tectonics, rocks and minerals, environmental resources, and glacial geology. During the second semester, students will be introduced to modern concepts in astronomy through topics such as the origin and history of the universe, our solar system and galaxy, astronomical phenomena, and various topics within stellar and galactic astronomy. Careers within these fields will be explored and discussed throughout the year. Students will be expected to complete projects, laboratory activities, and observations of local geological features and astronomical phenomena. **Prerequisites: Successful completion of Physical Science and Biology I. Fee**

SOCIAL STUDIES

<u>Course No.</u>	<u>Course Name</u>	<u>Credit</u>
410	Modern World History	1
412	Honors Modern World History	1
413	LCCC – United States I	1
414	LCCC – United States II	1
415	United States History	1
419	Financial Literacy	.5
420	Government	.5
421	Contemporary World Issues	1
430	Psychology	.5 (Fall Semester)
431	AP Psychology	1
435	Sociology	.5 (Spring Semester)
408	Firelands TLC	1
707	Macroeconomics	0.5
708	Geography	0.5

MODERN WORLD HISTORY (410) GRADE 9 1 credit

This course examines world events from 1600 to the present. It explores the impact of the democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that led to independence movements and the effects of global interdependence. The concepts of historical thinking introduced in earlier grades continue to build with students locating and analyzing primary and secondary sources from multiple perspectives to draw conclusions.

HONORS MODERN WORLD HISTORY (412) GRADE 9 1 credit

This course is designed for the college-bound student and is a rigorous course which will cover world events from 1600 to the present. This course provides a deep understanding of the impact of democratic and industrial revolutions, the forces that led to world domination by European powers, the wars that changed empires, the ideas that lead to independence movements, and the effects of global interdependence. This class will be project based with portfolio assignments to be completed throughout the school year, and a final portfolio notebook to be submitted at the end of the course. This course will prepare students for LCCC US History and LCCC American National Government. The course also places an emphasis on in-depth reading and synthesis of the concepts described above, while stressing document based analysis and utilizing higher order writing skills. **Prerequisite: This course requires two teacher recommendations, one being from an 8th grade Social Studies teacher and another from a teacher of choice, and a B average in both Social Studies and English from the eighth grade year.**

LCCC – UNITED STATES I HSTR 161 (413) Grades 10 – 12 (Fall Semester) 1 credit

A study of the origin and growth of American civilization from the discovery of the western hemisphere to the end of the Reconstruction. 3 college credit hours from LCCC.

Prerequisite: Proficient level on Accuplacer Test.

LCCC – UNITED STATES II HSTR 162 (414) Grades 10 – 12 (Spring Semester) 1 credit

A political, economic, diplomatic, social, cultural and intellectual survey of the United States from the end of Reconstruction to the present. 3 college credit hours from LCCC.

Prerequisite: LCCC – United States I - Proficient level on Accuplacer Test.

UNITED STATES HISTORY (415) Grade 10 1 credit

This course will begin with a quick review of American History up to Reconstruction. It will cover the Enlightenment, Industrialization, Imperialism, World War I, World War II, Civil Rights and the Cold War. Current events will be discussed on a daily basis and incorporated with events of American history for comparison purposes. **Fee**

GOVERNMENT (420) Grade 11 1 credit

This course is an overview of the U.S. political system including political ideology, the U.S. Constitution and events leading to its adoption, the legislative, executive, and judicial branches, civil liberties, voting behavior and elections, taxes, and other political and economic systems.

FINANCIAL LITERACY (419) Grade 11

1 credit

Financial Literacy also examines the ability of individuals to use knowledge and skills to manage limited financial resources effectively for a lifetime of financial security. Topics include financial responsibility, money management, saving, investing, credit, debt, and insurance.

MACROECONOMICS (707) Grades 11-12

Semester class 0.5 credit

Macroeconomics concentrates on the basic economic principles relevant to the resource utilization problems of the economy as a whole. Theories and policies that relate to the economy's total level of output, total income, total level of unemployment, total expenditure, and the general level of prices are treated at an introductory level.

CONTEMPORARY WORLD ISSUES (421) Grades 11 - 12

1 credit

The dynamics of global interactions among nations and regions present issues that affect all humanity. These dynamics include competing beliefs and goals, methods of engagement, and conflict and cooperation. Contemporary issues have political, economic, social, historic and geographic components. Approaches to addressing global and regional issues reflect historical influences and multiple perspectives.

GEOGRAPHY (708) Grades 11-12

Semester class 0.5 credit

This course builds on students' understanding of geography and spatial thinking. Contemporary issues are explored through the lens of geography. In addition to understanding where physical and cultural features are located and why those features are located as they are, students examine the implications of these spatial arrangements.

AP PSYCHOLOGY (431) Grades 11-12

1 credit

This is a full-year course. The AP Psychology course is designed to introduce students to the systematic and scientific study of the behavior and mental processes of human beings and other animals. Students are exposed to the psychological facts, principles, and phenomena associated with each of the major subfields within psychology. All students who sign up for this class must take the AP exam at a cost to the student, which will be added to school fees. Students must score at least a three or better on the AP Exam to be given college credit in this course. Please check with your college or university for their specific AP score requirements. **Prerequisite: B average or higher in core courses and Teacher Recommendation. Fee – AP Exam.**

SOCIOLOGY (435) Grades 11-12

1 credit

Sociology is the study of human beings and their life in groups. It is concerned with social institutions, social values, social problems and all other aspects of human behavior. The course is designed as an introductory course. It will seek to broaden the student's understanding of human relationships through the study of such topics as: television as an agent of socialization, culture, deviant and criminal behavior, family violence, group behavior, and comparisons between cultures. Emphasis is placed on the practical aspects of the concepts studied and how they may be applied to the student's own lives. **Prerequisite: Recommended 2.5 or better GPA**

LCCC - AMERICAN NATIONAL GOVERNMENT PLSC156 (441) Grades 11-12 1 credit

This course provides a survey of national government in theory and practice. Formal governmental structure and procedures studied and made meaningful will be explored with an emphasis on the individual's role in a functioning democracy. Economics is taught during the second semester of American Government. This segment of the course will touch on topics in both Macroeconomics and Microeconomics. Topics in Macroeconomics include the Fundamentals of Economics, Government & the Economy, and the Global Economy. Microeconomics will also be stressed in this course. The topics covered here include Working & Earning, Financial Responsibility & Money Management, Saving & Investing, Economic Decision Making & Skills, Credit & Debt, and Risk Management. 3 college credit hours from LCCC. **Prerequisite: Proficient level on Accuplacer Test.**

FIRELANDS TLC (408) [Teen Leadership Corp] Grades 11-12

1 credit

This course is designed to engage students in a meaningful set of community service activities and to develop leadership and problem solving skills. Students will be responsible for planning and participating in events that benefit others. Students will be required to follow up with written reflections on their experiences. **Prerequisite: Completion of an application, student contract, and personal interview.**

FIRELANDS HIGH SCHOOL REGISTRATION PLAN SHEET

Name _____ Date of Graduation _____

Occupation preparing for _____

During the four years of high school a student must complete required units of work as follows:

English	4 units
Social Studies	4 units (3 units – Career Technical)
Science	4 units (3 units – Career Technical)
Mathematics	4 units
Fine Arts	1 unit
Health	½ unit
Physical Education	½ unit

A minimum of 23 units of credit is required for graduation.

Students going to the Lorain County Joint Vocational School only need 3 credits of Science and Social Studies

FRESHMAN YEAR

1. English I (1 credit)
2. Physical Education (.25 credit) or Waiver
3. Health (.5 credit)
4. Science (1 credit)
5. World History (1 credit)
6. Math (1 credit)
7. Fine Arts (Highly Recommended)
8. _____

JUNIOR YEAR

1. English III (1 credit)
2. Science (1 credit)
3. Government (1 credit)
4. Math (1 credit)
5. _____
6. _____
7. _____
8. _____

SOPHOMORE YEAR

1. English II (1 credit)
2. Physical Education (.25 credit) (if not completed)
3. Science (1 credit)
4. U. S. History (1 credit)
5. Math (1 credit)
6. _____
7. _____
8. _____

SENIOR YEAR

1. English IV (1 credit)
2. Science (1 credit)
3. Social Studies (1 credit)
4. Math (1 credit)
5. _____
6. _____
7. _____
8. _____

All honor and elective classes must have a minimum of 10 students.