



High School Course Offerings 2022-2023

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Introduction

Welcome to high school! This course offering guidebook has been designed to help 9-12th grade scholars choose courses for the 2022-23 school year. Included is a list of course descriptions and programs available to scholars at The Lincoln Academy (TLA). We look forward to working with scholars to design a course plan for next year and continuing through graduation. Course plans will be created and aligned with scholars' Individualized Learning Plans (ILP).

Vision

The Lincoln Academy will be the premier 4K-12 school in the state of Wisconsin providing college and career pathways for scholars to lead happy, choice-filled lives. TLA is committed to an equitable environment with rigorous instruction, joyous interactions, and strong community partnerships.

Graduation Requirements

All candidates for graduation from TLA must complete 26 credits. The following credits are required for graduation:

English	4.0
Math	3.0
Science	3.0
Social Studies	3.0
Physical Education	1.5
Health	0.5
Personal Financial Literacy	0.5
Work-Based Learning	1.0
Electives	9.5
Total Credits	26.0

Scholars shall receive 1.0 credit for each two-semester course completed and 0.5 credit for each one-semester course completed.

Scholars completing Algebra 1 in 8th grade will receive 1.0 credit, which will count as a math elective.

Wisconsin Civics Examination

Scholars at TLA are required to pass (65% or higher) the Wisconsin Civics Examination, given junior year in social studies classes (US History or AP US History). This is part of the requirements for graduation unless otherwise noted in an Individualized Education Plan. Passage of the examination will be noted on the scholar's transcript.

Academic and Career Plan and Presentation Requirement

Scholars will be required to present their Individualized Learning Plan (ILP) to a review panel as part of the requirements for graduation. Scholars will be scheduled a 30-minute time slot in the second semester of their senior year to present their ILP to a panel consisting of a teacher, administrator, and community member. The ILP is developed over a scholar's school career and will include career activities, Xello findings, and projects from English, Personal Finance, and Work-based Learning. More information on the ILP presentation, including a checklist of the specific requirements, will be shared with all scholars in the fall of their senior year. Completion of the ILP and Xello will be noted on the scholar's transcript. Modifications to the ILP presentation may be noted in an Individualized Education Plan.

Service Learning

All scholars will be required to complete 40 hours of community service before graduation. Ten hours of community service will be required in middle school and an additional 30 hours in high school. This experience must be unpaid and meet the needs of the community.

Testing

9th grade: ASPIRE

10th grade: ASPIRE, Forward Exam (Social Studies)

11th grade: ACT, AP Tests, Civics Test

12th grade: Optional ACT retake, AP Tests

***ACCESS Test:** Annually for EL scholars

Testing Glossary

AP-Advanced Placement Tests

Given in May after a special course of study, these tests may be used by colleges for placement or credit. The school only offers tests for Advanced Placement courses we offer within our curriculum.

The AP Program gives scholars a chance to experience college-level classes in high school and opens the door to earning college credit before scholars ever set foot on campus. TLA offers AP courses in numerous subjects, each of which culminates in an optional exam in May. If scholars score a 3 or higher (on a scale of 1–5), they may earn college credit, skip intro-level courses, or both at thousands of U.S. colleges and universities. Earning credit in high school means paying for fewer credits in college. It also opens up scholars' schedules, allowing them to take more electives, pursue a second major, or study abroad. Regardless of a scholar's AP Exam score, taking AP courses can have a positive impact on college applications. By taking these courses, scholars can find out what college work is like while having the support of teachers.

ACCESS Test

Is administered through Grade 12 for scholars who have been identified as English Learners. It is given annually to monitor scholars' progress in learning academic English. It meets U.S. federal requirements of the Every Scholar Succeeds Act (ESSA) for monitoring and reporting ELs' progress toward English language proficiency. It is anchored in the WIDA English Language Development Standards and assesses the four language domains of Listening, Speaking, Reading, and Writing.

ACT-American College Test

This multiple-choice test has sections on English, Mathematics, Reading, Science Reasoning, and Writing. The scores range from 0-36. ACT can be used for admission to the University of Wisconsin System in addition to most other colleges across the nation. The writing section is required by many colleges and universities.

Aspire

It is a curriculum-based educational assessment for freshmen and sophomores that measures achievement in English, math, reading, writing, and science. The ASPIRE Test is part of the ACT progression of assessments. Aspire provides practice and information for ACT preparation.

Forward Exam

This test is designed to determine how well scholars are doing in relation to the Wisconsin Academic Standards. The Social Studies portion of this test is required for all sophomores.

Civics Test

According to WI Act 55, all scholars graduating from a Wisconsin high school must pass a civics test consisting of 100 questions that are identical to the 100 questions that may be asked of an individual during the process of applying for US Citizenship. 65 correct answers are required to pass.

Grading

Grading Scale		
Grade	Range	Rank Points per Credit
A+	98-100	4.00
A	92-97	4.00
A-	90-91	3.67
B+	88-89	3.33
B	82-87	3.00
B-	80-81	2.67
C+	78-79	2.33
C	72-77	2.00
C-	70-71	1.67
D+	68-69	1.33
D	62-67	1.00
D-	60-61	0.67

F	50-59	0.00
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Policy for Schedule Changes

A semester is approximately 18 weeks. A scholar may only switch to a different course prior to the semester or within the first four days of the current semester. Parents must confirm scholar schedule change requests prior to it being made. After this window, changes within the current semester may only be made for special/unique circumstances per administrative approval.

*Special Education scholar schedules are based upon the Individualized Education Plan (IEP).

Course Recommendations

Grade 9		
Subject	Course Name	Credits
English	English 9	1.0
Math	Algebra 1 (Or Geometry if TLA prerequisites are met)	1.0
Science	Physical Science with Earth	1.0
Social Studies	Geography: The Human and Physical World	0.5
Social Studies	Civics	0.5
Physical Education	Freshman Physical Education	0.5
Health	Health	0.5
Electives	4 semesters	2.0
Study Hall	Required Semester 1, Optional Semester 2	0.0
Total Credits Required		7.0
Grade 10		
Subject	Course Name	Credits
English	English 10	1.0
Math	Geometry, Applied Geometry, or Algebra 2	1.0
Science	Biology	1.0
Social Studies	World History or AP World History Modern	1.0
Physical Education	Sophomore Physical Education	0.5
Electives	5-7 semesters	2.5-3.5
Study Hall	optional	0.0
Total Credits Required		7.0-8.0

Grade 11		
Subject	Course Name	Credits
English	one subject elective	1.0
Math	Algebra 2, Math Reasoning and Shop Math or PreCalculus	1.0
Science	one subject elective	1.0
Social Studies	US History, AP US History	1.0
Physical Education	Junior Physical Education	0.5
Finance	Personal Financial Literacy	0.5
Work-Based Learning	Internship or Youth Apprenticeship	0.5-1.0
Electives	3-5 semesters	1.5-2.5
Study Hall	optional	0.0
Total Credits Required		7.0-8.0
Grade 12		
Subject	Course Name	Credits
English	British Literature, AP English Literature, and Composition	1.0
Work-Based Learning	Internship or Youth Apprenticeship	0.5-1.0
Electives	3-7 semesters	1.5-3.5
Study Hall	optional	0.0
Total Credits Required		3.0-5.0
TLA Required Graduation Credits		26

Dual Credit

There are many options at The Lincoln Academy to earn dual credit. Advanced Standing (AS) earns a scholar credit at Blackhawk Technical College (BTC) only. A scholar must earn a B or higher in an Advanced Standing high school course to earn credit at BTC. Transcribed Credit (TC) earns a scholar a BTC transcript credit that may transfer to other colleges. A scholar must earn a C or higher in a Transcribed Credit high school course to earn a BTC transcript credit. Advanced Standing and Transcribed Credit courses are denoted with an AS or TC in the Course Offering Table, high school transcript, and scholar schedule.

Start College Now/Early College Credit Program

The Start College Now (SCN) program permits anyone in 11-12th grade to attend a Wisconsin Technical College to take one or more courses, and earn both high school and technical college credit at the same time. SCN includes certificate programs such as Nursing Assistant, Emergency Medical Technician, Fire Safety, etc.

The Early College Credit Program (ECCP) permits anyone in 9-12th grade to attend a University of Wisconsin College to take one or more courses, and earn both high school and college credit at the same time.

Scholars must apply to participate in either SCN or ECCP to the school counselor by March 1 for Fall courses and October 1 for Spring courses. Once approved scholars will then apply to the college of higher education during the semester before enrollment. They must meet admission requirements and application deadlines. Scholars will only be admitted if there is room in the course. The scholar is encouraged to list alternate course selections so that the Director of Career Planning and Partnerships can determine the acceptability of alternative courses in the event first choice courses are full. Scholars will earn .25 high school credit for every 1 credit earned at the post-secondary institution.

Porter Scholar

The Porter Scholar Program is designed to allow seniors to take one Beloit College course each semester tuition-free. A Porter Scholar must be in the top 10% of the junior class to be eligible. Interested scholars must complete an admission application for Beloit College and return it to the school counselor by the middle of April during their Junior year. Scholars will be notified of acceptance into the program by the middle of May.

Pathways

Career Pathways are incorporated into the work scholars do. Courses within these pathways are a way for scholars to group their required courses and electives into a sequence, preparing scholars for careers and college. The sixteen Career Pathways will help scholars identify pathways from high school to two or four-year college, graduate school, and/or directly into the workforce. A wide variety of career possibilities can be found within the pathways. Scholars at TLA have the opportunity to take coursework in all the pathways. Below are the state-aligned Career Pathways.

Agriculture, Food & Natural Resources	The production, processing, marketing, distribution, financing, and development of agricultural commodities and resources including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.
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Arts, A/V Technology & Communications	Designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, journalism, and entertainment services.
Architecture & Construction	Careers in designing, planning, managing, building, and maintaining the build environment.
Business Management & Administration	Careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations.
Education & Training	Planning, managing, and providing education and training services, and related learning support services.
Finance	Planning, services for financial and investment planning, banking, insurance, and business financial management.
Government & Public Administration	Planning and performing government functions at the local, state, and federal levels, including governance, national security, foreign service, planning, revenue and taxation, and regulations.
Health Science	Planning, managing, and providing therapeutic services, diagnostic services, health informatics, support services, and biotechnology research and development.
Hospitality & Tourism	Preparing individuals for employment in career pathways that relate to families and human needs such as restaurant and food/beverage services, lodging, travel and tourism, amusement, and attractions.
Human Services	Preparing individuals for employment in career pathways that relate to families and human needs such as counseling and mental health services, family and community services, personal care, and consumer services.
Information Technology	Building linkages in IT occupations for entry-level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.
Law, Public Safety, Corrections & Security	Planning, managing, and providing legal, public safety, protective services, and homeland security, including professional and technical support services.
Manufacturing	Planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as

	production planning and control, maintenance, and manufacturing/process engineering.
Marketing	Planning, managing, and performing marketing activities to reach organizational objectives.
Science, Technology, Engineering & Mathematics	Planning, managing, and providing scientific research and professional and technical services including laboratory and testing services, and research and development services.
Transportation, Distribution & Logistics	Planning, management, and movement of people, materials, and goods by road, pipeline, air, rail, and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment, and facility maintenance.

Work-Based Learning Program

TLA will graduate 100% of scholars from high school ready to be employed, enroll in college, or enlist in the armed services. Grades 9-12 will focus on skills acquisition built on scholarship. Scholars will be required to complete either an Internship or Youth Apprenticeship in 11th and 12th grade. Scholars will spend 11th and 12th grade deeply engaged in opportunities related to career or technical specialty. High school scholars will have subject mastery and begin to seize individualized options tied to career interests by participating in TLA's Work-Based Learning Opportunities. Work-based learning will prepare scholars for further training at postsecondary educational institutions, businesses, or industries.

Internship-Required (1-2 credits) Unpaid/Paid

Scholars will:

- Participate in an unpaid/paid work-based learning experience related to their ILP
- Complete 90 hours per semester or up to 360 hours over 4 semesters
- Work at a single job site or up to 3 different placements in a semester
- Work closely with an on-site mentor

Youth Apprenticeship-Required (2-4 credits) Paid

Scholars will:

- Participate in a one or two-year, school supervised, paid work experience related to their ILP
- Complete 450 hours of work per year
- Work at one place of employment while earning required hours
- Earn proficiency on the statewide standard skills checklist
- Participate in related classroom instruction and workplace learning
- Work closely with an on-site mentor

Sample Course Worksheet

A Day	Period	SCHOLAR A	SCHOLAR B	SCHOLAR C
8:00-8:25	GIVE	GIVE	GIVE	GIVE
8:30-9:55	1	Intro to Computer Science	Drawing	English 9
10:00-11:25	3	Gym 9	Study Hall	Intro to Construction
11:30-11:55	Lunch	Lunch	Lunch	Lunch
12:00-1:25	5	Human Geography	Physical Science	Human Geography
1:30-2:55	7	English 9	Plant Science	Engineering
3:00-3:55	WIN	WIN	WIN	WIN

B Day	Period	SCHOLAR A	SCHOLAR B	SCHOLAR C
8:00-8:25	GIVE	GIVE	GIVE	GIVE
8:30-9:55	2	Algebra 1	Stained Glass	Study Hall
10:00-11:25	4	Intro to Welding	Algebra 1	Yearbook
11:30-11:55	Lunch	Lunch	Lunch	Lunch
12:00-1:25	6	Physical Science	English 9	Physical Science
1:30-2:55	8	Study Hall	Human Geography	Algebra 1
3:00-3:55	WIN	WIN	WIN	WIN

Course Offerings Table

Key

- E- Elective
- R- Required
- E/G- Elective choice-fulfills graduation requirement
- AS- Advanced Standing
- TC- Transcribed Credit
- SCN- Start College Now

AGRICULTURE	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Animal Science	E	0.5	9-12	AS	
Animal Science will provide scholars with the foundation needed to work with beef cattle, swine, sheep, dairy, poultry, as well as companion animals. In this course, scholars will learn about nutrition, disease, prevention and treatment, and how to work with and manage a wide variety of animals.					
Plant Science	E	0.5	9-12	AS	
Scholars will explore markets and trends in the ever-growing hydroponics farming industry. This course provides fundamental knowledge of the horticultural industry. Topics include pollinating and propagating plants, germinating seeds, plant nutrients, and factors affecting photosynthesis, respiration, and transpiration. Scholars will experience plant components and their functions through the completion of hands-on activities in the hydroponics lab.					
ART	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Ceramics	E	0.5	9-12		
This introductory course will teach scholars about three-dimensional artwork and the history and usage of clay. Scholars will express their creativity while beginning to develop skills, knowledge, and techniques in hand-building, glazing, and sculpture.					
Intermediate Ceramics	E	0.5	10-12		Ceramics
This course will concentrate on improving skills, craftsmanship, and techniques developed in Ceramics. Scholars will design hand-built and wheel-throwing ceramics and sculptures. A variety of glazing techniques will be used in this course.					
Drawing	E	0.5	9-12		
This course is designed for scholars who enjoy art and would like to increase their technical and observational skills in drawing. Scholars will use a variety of materials such as graphite, charcoal, colored pencil, and ink to create a body of work. This class is designed to inspire the creativity of each scholar.					
Intermediate Drawing	E	0.5	10-12		Drawing
This course will concentrate on improving skills, craftsmanship, and techniques developed in drawing. Scholars will focus on the human form in this course. Scholars will use graphite, charcoal, pastels, and ink to create. Gesture, line, texture, and value will be explored in this course to produce several drawings.					
Painting	E	0.5	9-12		
Scholars will explore color while using it to develop skills in pastel, watercolor, acrylic, and mixed media painting styles. Scholars will increase their technical and observational skills in painting. This course is designed to cultivate imagination and develop higher-level thinking and self-expression.					
Intermediate Painting	E	0.5	10-12		Painting
This course will concentrate on improving skills and techniques developed in painting. Scholars will explore the seven elements of art and apply them to their work. Scholars will use a variety of different paints in this course to create multiple pieces.					

Stained Glass	E	0.5	9-12		
In this class, scholars will explore the progression of stained glass and its place in Art History. Scholars will learn to design their own patterns as well as commercial patterns. Scholars will understand the process of creating stained glass and will create several stained glass pieces.					
Intermediate Stained Glass	E	0.5	10-12		Stained Glass
This course will concentrate on improving skills, craftsmanship, and technique developed in stained glass. Scholars will create and execute more complex designs with glass. This course is designed to explore the elements of shape, color, and texture in depth.					
Sculpture	E	0.5	9-12		
This course would be an exploration of 3D expression through visual art. The scholars will use various techniques and mediums to better understand the importance of materiality while creating work.					
Digital Art/Graphic Design	E	0.5	9-12		
This course would expand scholars' knowledge of how to use computer programs to produce art. The scholars will be producing articles, magazine covers, posters, and advertisements. Scholars will create art drawings and scan them in, mix drawing with digital art, or create complete digital art.					
AP Art & Design	E	1.0	11-12		3.0 GPA in same subject courses
AP Studio Art is a full-year course taught at the university level. This course is for the serious art scholar who wishes to develop an art portfolio in 2D Design, 3D Design, or Drawing. During the first semester, scholars will showcase their skills in various mediums to create a breadth of work. In the second semester, scholars will concentrate on an area of interest to develop a cohesive body of work. The expectation is to create 24 pieces of artwork throughout the year.					
COMPUTER SCIENCE	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Intro to Computer Science I	E	1.0	9-12		
Computing has changed the world in profound ways: it has opened wonderful new ways for people to connect, design, research, play, create, and express themselves. However, using the computer is just a small part. This year-long course is an introductory programming course that helps prepare scholars for more advanced programming courses. This TEALS course offers a basic foundation to create graphics and actions in Python.					
Intro to Computer Science II	E	1.0	10-12		Intro to CS I
Scholars will build upon CS topics and languages covered in Intro to CS I to further develop their skills within the expansive world of computing in preparation for future AP courses and beyond. Scholars will create interactive animations and games, investigate artificial intelligence and machine learning, examine how computers are essential in processing data within our society, and explore hardware platforms and circuits. Basic knowledge of Python, Java, and HTML required.					

AP Computer Science Principles	E	1.0	11-12		3.0 GPA in same subject courses
This two-semester course will introduce scholars to the creative aspects of programming, abstractions, algorithms, large data sets, the Internet, cybersecurity concerns, and computing impacts. It will allow scholars to use technology to address real-world problems and build relevant solutions. This course will prepare scholars to take the AP Computer Science Principles exam.					
AP Computer Science A	E	1.0	12		3.0 GPA in same subject courses
This course prepares scholars to take the AP Computer Science A exam. Scholars who are interested in an in-depth course in computer science theory and practice should take this course. Scholars will learn to program in the Java language, with emphasis on problem-solving, computer science theory, applications, algorithms, programming style, and program design.					
DIGITAL MEDIA & TECHNOLOGY	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Broadcast Media	E	0.5	9-12		
Scholars will learn about basic principles, procedures, and techniques of television production in this course including video control, special effects, operation of cameras and editing machines, composition, lighting, staging and directing, on-camera announcing, and interviewing.					
ENGLISH	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
English 9	R	1.0	9		
This course will take scholars through literary and informational texts that explore how individuals are affected by their choices, journeys, and interactions with others. scholars will explore the following writing forms: narrative, informational, argumentative, research, and literary analysis. Additionally, scholars will create and present an oral presentation.					
English 10	R	1.0	10		English 9
The course will take scholars through literary and informational texts that explore how individuals interact with each other through exchanges involving culture, language, and relationships. scholars will explore the following writing forms: literary (narrative or personal narrative), informational, literary analysis, and argumentative. Additionally, scholars will create and present an oral presentation.					
American Literature	E/G	1.0	11		English 10
The American Literature Grade 11 Units take scholars through literary and nonfiction texts that capture key periods in American literature, beginning with the early American period and moving through time to the contemporary moment.					
British Literature	E/G	1.0	12		English 10
The Grade 12 British Literature Units take scholars through literary and nonfiction texts that trace the development of British literature, beginning with the Medieval period and moving chronologically to the present moment.					

Visual Journalism	E/G	1.0	11-12		English 10
In this course, scholars will experience an emphasis on the principles and practices of journalism. Due to the interwoven nature of the multimedia age, scholars will focus on developing their visual literacy skills, as well as their oral presentation skills. Using print design, photography, video, and audio, scholars will document and tell the stories of the diverse and vibrant happenings in their local community and will have opportunities to explore the rich culture of the Beloit area.					
Speech	E/G	0.5	11-12	TC	English 10
This course emphasizes public speaking, verbal and nonverbal communication, critical thinking, cross-cultural communication, perception and self-concept, and strategies to overcome performance anxiety. Scholars will complete individual presentations, group activities, and research projects. Scholars will utilize and develop reading, writing, listening, and speaking skills.					
English Composition 1	E/G	0.5	11-12	TC	English 10
This course is designed for learners to develop knowledge and skills in all aspects of the writing process. Planning, organizing, writing, editing, and revising are applied through a variety of activities. Scholars will analyze the audience and purpose, use elements of research, and format documents using standard guidelines. Individuals will develop critical reading skills through the analysis of written documents.					
AP Literature and Composition	E/G	1.0	11-12		3.0 GPA in same subject courses
In this course, scholars will learn how to understand and evaluate works of fiction, poetry, and drama from various periods and cultures. Scholars will read literary works and write essays to explain and support analysis of them. This course will prepare scholars to take the AP Exam.					
Yearbook	E	1.0	9-12		
In this course, scholars will publish a yearbook for their peers. Scholars will learn the basics of yearbook journalism - book functions, financial responsibility, page layout, and design, copywriting and editing, graphics, and special effects, indexing, and scholar press law. Scholars interested in photography will study picture composition, photo organization, and editing in Adobe Photoshop.					
HEALTH EDUCATION					
	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Health	R	0.5	9		
This required course will explore the health topics of health and wellness, social health, dating relationships, bullying and cyberbullying, emotional health, mental and emotional disorders, conflict resolution, violence prevention, nutrition, physical activity, reproductive health and STDs, personal health care, body systems, tobacco, alcohol, drugs, medicines, diseases, safety, and environmental health.					
HEALTH SCIENCE					
	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Nursing Assistant	E	0.5	10-12	SCN	
This course prepares scholars to take the Wisconsin Nurse Aide Registry as a Nursing Assistant/Home Health Aide. The nursing assistant works under the supervision of an RN or LPN					

performing bedside and personal care, gathering data such as vital signs or in-take and out-put, and performing basic therapeutic interventions such as range of motion exercises.					
EMT	E	1.25	12	SCN	
This course prepares scholars for the National Registry of EMTs Emergency Technician level test which leads to licensure as an EMT in Wisconsin. The course emphasizes emergency medical skills needed to stabilize both trauma and medical patients in a prehospital setting within the guidelines of Medical Control. The course covers basic anatomy and physiology, patient and scene assessment, patient stabilization, and intervention techniques.					
Medical Terminology	E	0.5	10-12	SCN	
This course focuses on the component parts of medical terms: prefixes, suffixes, and word roots. Scholars practice formation, analysis, and reconstruction of terms. Emphasis on spelling, definition, and pronunciation. Introduction to operative, diagnostic, therapeutic, and symptomatic terminology of all body systems, as well as systematic and surgical terminology.					
Culture of Healthcare	E	0.5	10-12	SCN	
This course is an introduction to the culture of healthcare for scholars interested in working in various healthcare settings. Learners examine professionalism, interpersonal and written communication skills, problem-solving and patient privacy confidentiality issues as they relate to working in the healthcare industry.					
MATHEMATICS	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Algebra 1	R	1.0	9		none
Algebra is designed to give scholars a foundation for all future mathematics courses. The fundamentals of algebraic problem-solving are explained. scholars will explore: foundations of Algebra, solving equations, solving inequalities, an introduction to functions, linear functions, systems of equations and inequalities, exponents and exponential functions, polynomials and factoring, quadratic functions and equations, radical expressions and equations, and data analysis and probability. Throughout the course, Common Core standards are taught and reinforced as the scholar learns how to apply the concepts in real-life situations.					
Geometry	R or Applied Geometry	1.0	10		Algebra 1
Geometry reviews the geometric concepts of previous math courses while encouraging and guiding scholars in the discovery of new geometric concepts. Geometry stresses the ability to reason logically and to think critically. A major part of the course will be devoted to teaching scholars how to present formal proof. Geometric properties of both two and three dimensions are emphasized as scholars apply to points, lines, planes, circles, and polygons. *May take this course in 9th grade if Algebra 1 was taken in 8th grade with a grade of "B" or higher.					

Algebra 2	R or Math Reasoning and Shop Math	1.0	11		Geometry
<p>This course is designed to build on algebraic and geometric concepts. It develops advanced algebra skills such as systems of equations, advanced polynomials, imaginary and complex numbers, quadratics, and concepts and includes the study of trigonometric functions. It also introduces matrices and their properties. The content of this course is important for scholars' success on both the ACT and college mathematics entrance exams.</p> <p>*May take this course in 10th grade if Geometry was taken in 9th grade with a grade of "B" or higher.</p>					
Applied Geometry	E/G	1.0	10		Algebra 1
<p>The Applied Geometry class will include all concepts in Geometry at a lower skill band. Preparatory courses are designed to address the learning needs of scholars who are below grade level.</p>					
Shop Math	E/G	0.5	11-12	TC	Algebra and Geometry
<p>This course includes the basic principles of arithmetic beginning with whole numbers and common fractions and continuing through decimals, percentages, ratios, proportions, and averages, measurements, use of constants, tapers, and coordinate systems. These principles are applied to typical shop problems throughout the course.</p>					
PreCalculus	E/G	1.0			Algebra 2
<p>Pre-Calculus weaves together the previous study of algebra, geometry, and mathematical functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Throughout the course, Common Core standards are taught and reinforced as the scholar learns how to apply the concepts in real-life situations. Topics include fundamental concepts of Algebra, functions, and graphs, polynomials and rational functions, exponential and logarithmic functions, trigonometric functions, analytic trigonometry, topics in trigonometry, systems of equations and inequalities, matrices and determinants, conic sections and analytic geometry, combinatorics, binomial theorem, sequences and series, and an introduction to Calculus.</p>					
AP Calculus AB	E/G	1.0			3.0 GPA in same subject courses
<p>This course is designed to be the equivalent of a first-semester college calculus course devoted to topics in limits, differential, and integral calculus and their applications. This course will prepare scholars to take the AP Calculus AB Exam.</p>					
MUSIC	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Choir	E	1.0	9-12		
<p>This course is designed for scholars who truly enjoy choral singing. Scholars will build sight-singing and musicianship skills. They will prepare and perform for school assemblies and events.</p>					
Music Engineers	E	0.5	9-12		
<p>In this course Scholars will utilize various music arranging and editing tools, learn about music recording techniques, mixing, and creating finished musical recordings. Scholars will also learn about</p>					

the historical development of music from the late 20th century to the present through interactive classroom activities that foster scholar engagement.

TLA Music Ensemble	E	0.5	9-12		
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Scholars will participate in a performance-based ensemble that incorporates the use of a musical instrument (strings, brass, woodwinds, percussion). Scholars will need to provide their own music instrument. Musical literacy, technique, and ensemble skills will be built through creating, performing, responding, and connecting standards. Scholars will be expected to participate in a school performance at the conclusion of the course.

PHYSICAL EDUCATION	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
General Physical Education	R	0.5	9-12		

Scholars will engage in a variety of moderate to vigorous physical activities to promote lifelong health and wellness. Experiences will include but are not limited to: fitness activities, fitness testing, fitness concepts, individual activities, team activities, and dance.

Strength and Conditioning	R	0.5	11-12		
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Scholars will have the opportunity to experience a course that is devoted to the development of strength and performance. Fundamental and advanced techniques will be applied to resistance training, and functional fitness concepts will be applied to enhance the scholar's power and agility. Movements and exercises will be designed to resist injury. This course is designed to accommodate scholars with a variety of training needs. Additional concepts such as nutrition, healthy habits, and leadership will be applied in this course.

NJROTC	E/G	1.0	9-12		
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Navy Reserves Officer Training Program is a multi-year program that runs concurrently with a scholar's educational course of study. Navy ROTC scholars will participate in drills, physical training, and other activities. Scholars will also be taught leadership principles and high ideals of a military offer.

SCIENCE	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Physical Science with Earth	R	1.0	9		

This activity-oriented laboratory science course is designed to prepare scholars for success in upper-level science courses. The topics covered will include an introduction to chemistry, some conceptual physics, energy in our world, and natural disasters. The content will include some basic algebra that will help prepare scholars for Chemistry and Physics later in their high school careers. The concepts covered in this course are designed to relate to the scholars' everyday life as well as build their investigative skills and physical science and earth science background.

Biology	R	1.0	10		Physical Science
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Biology is the scientific study of living organisms. This lab-based course covers the following topics: basic biochemistry; structure, organization & energy use of cells; microorganisms; genetics; taxonomy; and plant biology, animal biology & environmental biology. Dissection is a requirement for the lab component of this course.

Chemistry	E/G	1.0	11-12		Biology
Chemistry covers fundamental chemistry principles and their application. Topics will include laboratory safety and techniques, scientific problem solving, matter and energy, atomic structure, the periodic table, chemical bonding theories, nomenclature, chemical reactions, acids and bases, solutions, reaction rates, and nuclear chemistry. Chemistry is a laboratory-based course where laboratory safety and techniques will be developed. Scholars will learn the relationship between math and science.					
Physics	E/G	1.0	12		Chemistry
This course emphasizes the understanding of basic physics concepts through laboratory investigation and applications. Topics include kinematics, dynamics, work, energy, power, temperature, heat, waves, electricity, magnetism, electromagnetic waves, optics, and atomic and nuclear physics.					
Earth Science	E/G	1.0	11-12		Biology
In this class, we will take a fresh look at Earth Science through investigations, hands-on activities, and explorations into topics including such as the Earth system including its history, the fast and slow changes to Earth's surface, its natural resources, and human impacts on Earth as well as Earth in the solar system and space.					
Anatomy and Physiology	E/G	1.0	11-12		Biology
Scholars will examine basic concepts of human anatomy and physiology as scholars relate to health sciences. Using a body systems approach, the course emphasizes the interrelationships between structure and function at the gross and microscopic levels of organization of the entire human body. It is intended to prepare health care professionals who need to apply basic concepts of whole body anatomy and physiology to informed decision-making and professional communication with colleagues and patients.					
AP Biology	E/G	1.0	12		3.0 GPA in same subject courses
In the course, scholars will study the core scientific principles, theories, and processes that govern living organisms and biological systems. Scholars will complete hands-on laboratory work to investigate natural phenomena. scholars will prepare to take the AP Biology Exam.					
SOCIAL STUDIES	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Human Geography	R	0.5	9		
In this course, scholars will make connections between geography, people, and the world in which we live, and will explore issues relating to human geography. scholars will explore issues relating to human geographies such as labor migration, energy resources and indigenous rights, and the socioeconomic status of women.					
Civics	R	0.5	9		
This course combines the basic concepts of government with the three branches of government. It explores the rights and responsibilities of citizens in the world of politics as well as intelligent decision-making in the marketplace. Scholars will learn about the constitution and be ready to be a more knowledgeable citizen upon completion of this course. Scholars will prepare for the DPI Civics Exam. This course will support scholars taking the Civics Exam, which is a graduation requirement.					

World History	R or AP	1.0	10		Human Geography, Civics
This course begins with the rise of civilization in Mesopotamia and continues to the modern era. scholars will explore events and themes that have led to the development of our modern world. This course will stress government, world religions, and economics while using inquiry-based thinking, research skills, and primary sources.					
AP World History	E/G	1.0	10-12		3.0 GPA in same subject courses
This course content is focused on the investigation of themes in chronological periods from approximately 1200 CE to the present. The class prepares scholars for intermediate and advanced college courses with a chance to earn college credits through the AP World History Exam.					
US History	R or AP	1.0	11		
This course walks scholars through historical themes from the founding of the nation to today. Themes include American Character, American Identity, War and Peace, American Presidency, Economic Development, Civil Rights, and Twentieth-Century Culture. scholars will be introduced to many primary and secondary sources and learn a variety of critical thinking and inquiry skills that will help them make modern-day connections to the many themes of U.S. History.					
AP US History	E/G	1.0	11-12		3.0 GPA in same subject courses
AP U.S. History is designed to provide scholars with the skills and factual knowledge to deal critically with the problems and materials in U.S. History. The class prepares scholars for intermediate and advanced college courses with a chance to earn college credits through the AP U.S. History Exam.					
Sociology	E/G	0.5	11-12		
This course introduces scholars to the basic concepts of sociology: culture, socialization, social stratification, multiculturalism, and the five institutions, including family, government, economics, religion, and education. Other topics include demography, deviance, technology, environment, social issues, social change, social organization, and workplace issues.					
Psychology	E/G	0.5	11-12		
This introductory psychology course is a survey of the multiple aspects of human behavior. It involves a survey of the theoretical foundations of human functioning in such areas as learning, motivation, emotions, personality, deviance and pathology, physiological factors, and social influences. It directs the scholar to an insightful understanding of the complexities of human relationships in personal, social, and vocational settings.					
Economics	E/G	0.5	11-12		
This course examines the behavior of individual decision-makers, primarily consumers and firms. Topics include choices of how much to consume and to produce, the functioning of perfectly and imperfectly competitive markets, the conditions under which markets may fail, and arguments for and against government intervention. The scholar will apply the fundamental tools of economics to real-world problems.					

Personal Financial Literacy	R	0.5	11		
This course is designed to equip high school scholars with the knowledge and skills necessary to manage their personal finances effectively. scholars will learn “Real Life” skills that scholars can utilize throughout their own lives. Financial Literacy topics include taxes, checking accounts, saving, types of credit, investing, insurance, and budgeting.					
TECHNOLOGY EDUCATION	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Intro to Construction	E	0.5	9-12		
In this introductory construction course, scholars will learn about safety, construction math, hand tools, power tools, construction drawings, basic rigging, communication and employability skills, and material handling. Scholars will engage in hands-on labs utilizing the latest technology related to construction. All scholars interested in taking the Construction Mod classes must take this course first.					
Construction 1	E	0.5	9-12		Intro to Construction
In this course, scholars will learn how to build a house from the foundation to the roof. Scholars will learn the skills and techniques necessary to be successful in the field of construction. Through this hands-on course, scholars will have the opportunity every day to learn and demonstrate the latest trades in construction.					
Construction 2	E	0.5	10-12		Intro to Construction and Construction 1
Scholars will learn how to plan a construction project from the management side. Scholars will work with a design, create a budget, and be responsible for the logistics of the entire project and will learn how to create project timelines. Scholars will build a construction project for the community, building upon the construction skills learned in Intro to Construction and Construction 1. Scholars will become more skilled in the field as they learn more advanced skill sets in each category.					
Intro to Welding	E	0.5	9-12	TC	
In this course, scholars will learn about the history of welding, basic metallurgy, weld defects, and common welding processes and practices. This course will familiarize scholars with national safety rules and regulations of the welding industry, personal protective gear, and machine operation. Scholars will be introduced to the four main welding processes including Gas Metal Arc Welding (GMAW), Shielded Metal Arc Welding (SMAW), Gas Tungsten Arc Welding (GTAW), and Flux-Core Arc Welding (FCAW).					
Welding 1	E	0.5	9-12	TC	Intro to Welding
Scholars will develop skills in Gas Metal Arc Welding (GMAW) and Shielded Metal Arc Welding (SMAW) in this course. Scholars will learn about machine settings, theory, filler metals, polarities, and welding processes for both. Scholars will make welds in the flat, horizontal, and vertical position on carbon steel while learning how to read blueprints. Scholars will learn how to program and operate the metal-cutting plasma table. Scholars will design and fabricate their own custom metal projects.					

Metal Fabrication 1	E		10-12	TC	Intro to Welding & Welding 1
Metal fabrication exposes scholars to fabrication techniques used in industry to join metal. Scholars will learn how to metal form using the latest laser technologies. Scholars will learn how to cut, notch and bend pipes. Scholars will learn the proper design techniques for metal fabrication.					
Engineering	E	0.5	9-12		
This course will expose scholars to the design process, research and analysis, engineering standards, and technical documentation. Scholars will have the opportunity to problem-solve and develop skills and course concepts through 3-D modeling and fabrication. Scholars will explore the seven facets of engineering through hands-on inquiry-based lessons and labs. Scholars will have the opportunity to apply their own creative problem-solving methods to design, develop and fabricate alternative solutions to real-world problems.					
Intro to Robotics	E	0.5	9-12	TC	
Scholars will be introduced to the basics of robotics in this course. This includes defining specific terminology, types of configurations, specifications, and application characteristics of robots. Scholars will examine the basic parts of the robot and demonstrate their knowledge through the operation of these systems in laboratory exercises. Scholars will learn how to program the most current robots used in the automated manufacturing industry.					
Robotics 1	E	0.5	9-12	TC	Intro to Robotics
Scholars will learn about Industry level robotics, and how to program them. Scholars will learn how to program a Fanuc pick and place robot. Scholars will build a mini work cell that emulates a manufacturing facility.					
Intro to CNC	E	0.5	9-12	AS	
In this course, scholars will be introduced to the CNC Mill. Scholars will focus on milling operations, setup, and fundamentals of manual programming utilizing conversational programming. Scholars will perform these tasks on a desktop CNC machine.					
CNC 1:	E	0.5	9-12	AS	Intro to CNC
Scholars who have completed CNC 1 will take a deeper look into CNC and CAM (computer aided machining). Scholars will learn how to program and operate a CNC Lathe. Scholars will build on their skills learned in Intro to CNC and expand their abilities by manufacturing custom parts, using jigs and fixtures scholars create.					
3D Modeling	E	0.5	9-10		
Scholars will learn how to 3D model using Fusion 360. 3D modeling is the root of technology we offer here at TLA. Scholars need to know how to design, 3D model, create assemblies and animations within a 3D modeling software in order to properly utilize the technology we have in our labs. Whether scholars are using the 3D printer, laser, cnc or router it all starts with 3D modeling.					
Innovation Lab	E	0.5	9-12		
This course builds on scholars' makerspace experience as scholars work collaboratively to bring awareness to and solve a problem in their school or local community. This course emphasizes scholar-driven project-based learning and requires scholars to take initiative, manage time, track progress, communicate professionally, and give and receive peer feedback. Throughout the course,					

<p>scholars will build on makerspace skills including using more advanced computer-aided design and earning NC3 certifications for 3D printing, laser cutting/engraving, and CNC. Scholars will engage in hands-on projects and will leave this course with the skills needed to be successful in future technology and engineering courses.</p>					
Manufacturing Enterprise Practicum	E	0.5	10-12		
<p>Manufacturing Practicum Enterprise is a class that will expose scholars to the manufacturing process. Scholars will learn about manufacturing from the standpoint of design, part production, packaging, marketing, sales and distribution. Scholars will create a company, design a product, market it, mass produce and distribute and sell. Scholars will understand the many different disciplines and careers within manufacturing through a hands-on practicum enterprise course.</p>					
WORLD LANGUAGES	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Spanish 1	E	1.0	9-12		
<p>Scholars begin their introduction to Spanish by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading, and listening comprehension activities speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar.</p>					
Spanish 2	E	1.0	10-12		Spanish 1
<p>Scholars continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. scholars not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading, and listening comprehension activities speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar.</p>					
Spanish 3	E	1.0	11-12		Spanish 2
<p>Intermediate Spanish scholars who have a strong base of vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course. Through games and compelling stories, scholars learn advanced grammar and vocabulary, with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps scholars eliminate common mistakes from their speaking and writing.</p>					
AP Spanish Language & Culture	E	1.0	12		3.0 GPA in same subject courses
<p>The AP® Spanish Language and Culture course is an advanced language course in which scholars acquire proficiencies that expand their cognitive, analytical, and communicative skills. The AP® Spanish Language and Culture course prepares scholars for the AP® Spanish Language and Culture exam. It uses as its foundation the three modes of communication (Interpersonal, Interpretive, and Presentational) as defined in the Standards for Foreign Language Learning in the twenty-first century. The course is designed as an immersion experience and is conducted almost exclusively in Spanish.</p>					

French 1	E	1.0	9-12		
Scholars begin their introduction to French by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading, and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar.					
French 2	E	1.0	10-12		French 1
Scholars continue their study of French by further expanding their knowledge of key vocabulary topics and grammar concepts. scholars not only begin to comprehend listening and reading passages more fully, but scholars also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading, and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities.					
French 3	E	1.0	11-12		French 2
Scholars further deepen their understanding of French by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities that teach the scholars how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in both formal and informal spoken and written contexts.					
AP French Language	E	1.0	12		3.0 GPA in same subject courses
The AP® French Language and Culture course is an advanced language course in which scholars prepare for the AP® French Language and Culture exam. Its foundation is the three modes of communication: interpersonal, interpretive, and presentational. The course teaches language structures in context and focuses on the development of fluency to convey meaning.					
WORK-BASED LEARNING					
	Elec/Req	Credits	Grades	Dual Credit	Prerequisites
Internship	E/G	.5-2	11-12		
This course is an opportunity for a scholar to explore a career of interest identified in his/her ILP. Scholars will connect classroom educational experiences while learning from a mentor on the job. This experience can be paid or unpaid. Scholars can complete a minimum of 90 hours at one placement or up to three different placements within the same pathway. Scholars will develop work habits and a network of contacts in the scholar's interested career field.					
Youth Apprenticeship	E/G	1-2	11-12		
This course is an opportunity for a scholar to explore a career of interest identified in his/her ILP. Scholars will connect classroom educational experiences while learning from a mentor on the job. The scholar must be paid during this experience. Scholars will be required to complete 450 hours for level 1. Scholars completing Level 2 will need to complete a total of 900 hours. Scholars will develop work habits and a network of contacts in the scholar's interested career field.					