London High School

Course Guide for Academic Year 2025-2026

Table of Contents	

LONDON HIGH SCHOOL PHILOSOPHY AND GOALS

Student success is our mission!

We believe education should provide each student the opportunity to develop the intellectual foundation, necessary skills, and appropriate values required to be an informed, responsible, productive member of society. The faculty and staff of London High School realize the importance of addressing the total development - intellectual, social, moral, emotional, and physical - of each student. We will encourage each student to continue his/her personal growth so that each may become a lifelong asset to self and community.

London City Schools desires to be a premier school district and has established five (5) priority goals in order to show continuous improvement.

This is what we are striving for…

1. All London City School District students will experience high achievement and constant growth.
2. All London City School District students will be prepared for individual success.
3. All London City School District students will have access to a variety of academic, athletic, and extracurricular opportunities.
4. All stakeholders will have a positive "user experience" with the London City School District.
5. The London City School District will demonstrate effective stewardship with all district resources.

PUBLIC NOTIFICATION:

It is the policy of the London City School District not to discriminate on the basis of sex in its educational programs, activities, employment policies or admission policies and practices as required by Title IX of the 1972 Education Amendments. Inquiries regarding compliance with Title IX may be directed to the district's Title IX coordinator at 852-5700. The London City School District does not discriminate against any individual for reasons of race, color, creed, religion, age, sex, handicap, or national origin. The London City School District is an equal-opportunity employer.

GRADUATION REQUIREMENTS

The Board of Education shall award a regular high school diploma to every student enrolled in this District who meets the requirements of graduation established by State law and this Board or who properly completes the goals and objectives specified in his/her individualized education program (IEP) including either the exemption from or the requirement to complete the tests required by the State Board of Education. The following information provides an overview of the requirements needed for graduation. Students and parents should check in periodically with their school counselor to ensure their child is on track to graduate.

Course Credits Required for Graduation

The requirements for graduation from high school include earning twenty-one (21) units of credit in grades nine (9) through twelve (12) as established in State law and by the Board of Education and fulfilling the requirements of one (1) graduation pathway that has been approved by the State. To graduate, students must earn twenty-one (21) units of credit in grades nine through twelve as follows:

Subject	**Units Required**
English Language Arts [Minimum of four (4) credits]	4.0
Health [Minimum of one-half (1/2) credit]	0.5
Physical Education [Minimum of one-half (1/2) credit- a PE Waiver also can be used, requirements of PE Waiver must satisfy those specifications listed by the Department of Education and Workforce]	0.5
Mathematics [Minimum of four (4) credits] (must include one (1) unit of algebra II or equivalent of algebra II or one (1) unit of advanced computer science. Parents must sign a written statement acknowledging that not taking algebra II might negatively impact college admissions decisions before a student may substitute advanced computer science for algebra II. Students who are enrolled in a career technical program may complete a career-based pathway math course as an alternative to algebra II or advanced computer science.)	4.0
Science [Minimum of three (3) credits] (must include 1 unit of physical sciences, one (1) unit of life sciences, and one (1) unit of advanced study in one (1) or more of chemistry, physics, other physical science, advanced biology or other life science, physical geology or other earth or space science, computer science.)	3.0
Social Studies [Minimum of three (3) credits] must include ½ unit of American history, ½ unit of American government, and ½ unit in world history and civilizations (for students in the classes of 2021 and beyond) in the three required social studies units.	3.0
Financial Literacy [Minimum of a half (0.5) credit needed. All students must receive instruction in economics and financial literacy during Grades 9 – 12.]	0.5
Fine Arts [Minimum of one (1) credit needed. This can be completed through art, band or choir. Students in a technical pathway may be exempt.]	1.0
Electives [Minimum of five (5) credits] (must include one (1) or any combination of a foreign language, computer coding, fine arts, business, career-technical education, family and consumer sciences, technology, agricultural education, a junior reserve officer training corps (JROTC) program approved by the U.S. Congress, or English Language Arts, Mathematics, Science, or Social Studies courses not otherwise required)	4.5 (5.0 if using a PE Waiver)

London City Schools

Ohio's High School Graduation Requirements

Classes of 2023 and Beyond

FIRST — cover — Basics

EARN 21 CREDITS

- 4 Units Mathematics
- 4 Units English Language Arts
- 3 Units Social Studies
- 3 Units Science
- 1 Unit Fine Arts
- 1 Unit Health & Physical Education
- 5 Units of Electives (which must include 0.5 credits of Financial Literacy)

SECOND — demonstrate — Competency

DEMONSTRATE COMPETENCY

Students must take Algebra I and English II end-of-course tests and earn a minimum score of 684

ALTERNATIVES

Before being eligible to demonstrate competency in one of these, a student first must receive remediation and retake the test. A counselor will meet with you if an alternative pathway is needed.

- SAT or ACT
- COLLEGE CREDIT PLUS
- CAREER TECHNICAL
- MILITARY READINESS

THIRD — show — Readiness

EARN 2 SEALS

STATE SEALS

- Technology
- Citizenship
- Biliteracy
- Ohio Means Jobs
- Honors Diploma
- Science
- Military Enlistment
- College Ready
- Industry-Recognized Credential

LOCAL SEALS

- Community Service
- Student Engagement *Tolles Students Only
- Fine & Performing Arts

Students must have a minimum of 1 State Seal & 1 Local Seal

Economics/Financial Literacy Requirement: All students must receive instruction in economics and financial literacy during Grades 9 – 12.

Cardiopulmonary Resuscitation (CPR)/Automated External Defibrillator (AED) Requirement: All students must receive instruction in cardiopulmonary resuscitation and the use of an automated external defibrillator from an approved source during Grades 9-12, unless the student is exempted from such training due to a disability or by written request of the parent. This training is normally scheduled by the school and completed as a group during a student's Junior year.

Community Service Requirement: All students must also complete no less than 10 hours of community service during their high school career (Grades 9-12). Community service hours must be pre-approved by the school counselor or school administration. This also fulfills a graduation seal.

Physical Education Waiver: Students who have participated in interscholastic athletics, marching band, color guard, or cheerleading for at least two (2) full seasons as defined in the London High School Course Guide, while enrolled in grades 9 through 12, and as documented by the athletic director, assistant principal, and/or school counselor may be excused from the high school physical education requirement. *Students must participate in 2 full seasons before the fall of senior year.* Students using the PE waiver must complete another 0.5 credit course needed for graduation.

State Graduation Requirements

Finally, students must also satisfy the following two (2) state requirements:

1. Earn at least two (2) State diploma seals,
   a. One (1) of which must include: Seal of Biliteracy; OhioMeansJobs-readiness Seal; or State Diploma Seal in one (1) of the following areas: Industry-recognized Credential Seal; College-ready seal; Military Enlistment Seal; Citizenship seal; Science Seal; Honors Diploma Seal; Technology Seal.
   a. The Board offers the following additional seal(s) in accordance with adopted administrative guidelines: Community Service Seal; Fine/Performing Arts Seal; Student Engagement Seal.
2. Attain a competency score on each of the Algebra I and English Language Arts II end-of-course examinations. Students who receive a proficient score on Algebra I or English Language Arts prior to entering high school will fulfill this requirement and will not be required to retake the exams. Students who fail to attain the competency score in either subject will be offered remedial support and will be required to retake the exam(s) at least once. A student who fails to achieve the competency score a second time may demonstrate competency in the failed subject area by completing one (1) of the following:
   a. Earn course credit through College Credit Plus in that subject;
   a. Provide evidence of enlistment in a branch of the armed services of the United States; or;
   a. Complete two (2) of the following options, with at least one (1) of the options being a foundational option:
      . Foundational Options: earning a score of proficient or higher on three (3) or more State technical assessments; obtaining an industry-recognized credential; completing a pre-apprenticeship or apprenticeship in a chosen career field; providing evidence of acceptance into an apprenticeship program after high school that is restricted to participants eighteen (18) years of age or older.
      . Supporting Options: completing 250 hours of a work-based learning experience with evidence of positive evaluations; obtaining an Ohio Means Jobs-readiness seal; attaining a workforce readiness score selected by the State.

Earning an Honors Diploma

The following chart outlines the requirements for earning an honors diploma. As you review this chart, please keep in mind the following:

1. To be eligible for an Honors Diploma, students must meet all but one of the criteria. Students may only waive one of the criteria not required for graduation (e.g., ACT score, third year of foreign language, etc.).
2. Advanced science refers to courses in the Ohio Core that are inquiry-based with laboratory experiences and align with the 11/12th grade standards (or above) or with an AP science course or with an entry-level college course.
3. Students who are attending Tolles Career & Technical Center are excused from the Fine Art requirement.
4. London High School Does NOT Offer an IB Program.

Recognizing Academic Honors

The Board of Education values excellence and wishes to instill in students the desire to do their best in all things. It shall be the policy of this Board, therefore, to recognize outstanding accomplishment in both curricular and co-curricular areas. Students are recognized yearly for their academic accomplishments. The recognition students can earn is Honor Roll or Merit Honor Roll. This is based upon a student's unweighted GPA from the First and Second semester grades of the previous academic year. Merit Honor Roll is a GPA of 3.5-4.0. Honor Roll is 3.0-3.4999.

Senior academic recognition is based on the seven semester unweighted GPA. Quality points is used to define the Top 20.

New Honors Diploma Requirements

High school students can gain state recognition for exceeding Ohio's graduation requirements through an Academic Honors Diploma. High-level coursework, college and career readiness tests and real-world experiences challenge students.

Students must meet **all but one** of the following criteria. Each of these criteria go beyond the standard requirements for a diploma for the classes of 2023 and beyond. Students must meet general graduation requirements and complete the requirements outlined below to qualify for honors diplomas. Students may replace one requirement of either 4, 5 or 6 with a "Student Strength Demonstration." The previous requirements to earn an honors diploma are also available for students in the classes of 2023-2025.

ACADEMIC HONORS DIPLOMA

Proposed Requirements		
1	**Math**	4th Math must be > Algebra 2
2	**Science**	1 additional unit Advanced Science
3	**Social Studies**	1 additional unit Social Studies
4	**World Language**	3 sequential units of one world language, or no less than 2 sequential units of two world languages studied
5	**GPA**	3.5 on a 4.0 scale
6	**ACT/SAT**	ACT: 27 or higher/SAT: 1280 or higher
7	**Seal Requirement**	Earn 2 additional diploma Seals, not including Honors Diploma Seal
8	**Experiential Learning**	Field Experience/ Portfolio, OMJ Readiness Seal, or WBL

Students may replace any of the **Blue** options with a "Student Strength Demonstration"
Student Strength Options include:

- **College Credit Plus:** 12 Credits
- **AP:** 3 Courses with 3 or higher on AP tests
- **CTAG:** 12 College Credits
- **Apprenticeship/Pre-Apprenticeship:** Completion or Evidence of Acceptance if required to be older than 18
- **WorkKeys:** 6 or higher on all tests(void for Career-Tech Honors Diploma)
- **ASVAB:** Score of 50
- **Work-Based Learning:** 250 Hours

NOTE: Students can use OMJ Readiness Seal in 2 additional seals if it is not used in Experiential Learning Requirement

SCHEDULING GUIDELINES

Sample Scheduling Outline (Actual courses may differ based on previous courses taken. Internships or Work Experiences may change when students take actual classes.)

Grade	English	Math	Science	Social Studies	Electives	Electives	Electives or Study Hall	Lunch
Freshman	English 1	Algebra 1	Biology	World History	Foreign Language	STEAM Electives	STEAM Electives or Study Hall	Lunch
Sophomore	English 2	Geometry	Physical Science or Chemistry	American History	Foreign Language	STEAM Electives	STEAM Electives or Study Hall	Lunch
Junior	English Elective or CCP English	Algebra 2	Chemistry or Upper Level Science or CCP Science	Government	Foreign Language	STEAM Electives	STEAM Elective-CCP or Internship	Lunch
Senior	English Elective or CCP English	Fourth Math or CCP Math	Upper Level Science	Elective-CCP or Internship	Elective-CCP or Internship	STEAM Electives	STEAM Elective-CCP or Internship	Lunch

Use the following templates to help you schedule your four-year plan.

FRESHMAN		
Area	**Course**	**Credit**
English	English I	1.0
Math	Foundations of Algebra 1A, Algebra 1, Geometry, Algebra 2	1.0
Science	Biology	1.0
Social Studies	World History	1.0
World Language	Spanish 1 or French 1 (Recommended for College Prep)	1.0
STEAM Elective	Students in need of PE or Health should take here. Students who intend to use a PE Waiver do not need to take PE.	.25/.50 /1.0
STEAM Elective	STEAM Elective	1.0
STEAM Elective or Study Hall	STEAM Elective or Study Hall	

Things to consider when planning:

- Did you schedule PE or are you going to use a PE Waiver?
- What is your diploma goal; Academic, Honors Academic, or Honors Career Technical?
- What is your career goal?
- What electives have you selected?

SOPHOMORE		
Area	**Course**	**Credit**
English	English II	1.0
Math	Algebra 1B, Geometry, Algebra 2, CCP	1.0
Science	Physical Science or Advanced Science	1.0
Social Studies	American History or CCP American History	1.0
World Language	Spanish 2 or French 2 (Recommended for College Prep)	1.0
STEAM Elective	STEAM Elective	1.0
STEAM Elective	STEAM Elective	1.0
STEAM Elective or Study Hall	STEAM Elective or Study Hall	

Things to consider when planning:

- What is your career goal? Is Tolles Career & Technical Center on your radar?
- Have you looked at prerequisites for courses you want to take during your junior and/or senior year? Will the courses in your schedule now fulfill these prerequisites?
- Are you on track for the diploma you want to earn?
- Do you have your Fine Art Requirement met?

Junior		
Area	**Course**	**Credit**
English	English Elective or CCP English	1.0
Math	Geometry, Algebra 2, Math Elective, or CCP	1.0
Science	Advanced Science	1.0
Social Studies	Government or CCP Government	1.0
World Language	Spanish 3 or French 3 (Recommended for College Prep)	1.0
STEAM Elective	STEAM Elective	1.0
STEAM Elective	STEAM Elective	1.0
STEAM Elective or Study Hall	STEAM Elective, Internship, or Study Hall	

Things to consider when planning:

- Have you fulfilled the fine arts requirement?
- Are you on track for the diploma you want to earn? Honors Academic requires three (3) years of a language.
- Are you taking courses that will prepare you for your career goal?

Senior		
Area	**Course**	**Credit**
English	English Elective or CCP English	1.0
Math	Algebra 2, Math Elective, or CCP	1.0
Science	Advanced Science Elective or CCP	1.0
Social Studies	Social Studies Elective or CCP	1.0
World Language	CCP Foreign Language	1.0
STEAM Elective	STEAM Elective or Internship	1.0
STEAM Elective	STEAM Elective or Internship	1.0
STEAM Elective or Study Hall	STEAM Elective, Internship, or Study Hall	

Things to consider when planning:

- Have you double-checked your course selections to ensure you're meeting graduation
- requirements?
- Are you preparing yourself to achieve your career goal?
- Have you considered any of the extended learning opportunities available to you to enhance your studies through London Unlimited

CLASS RANK and GPA:

The Board of Education acknowledges the usefulness of a system of computing grade point averages and class ranking for high school graduates, both to inform students of their relative academic placement among their peers and to provide students, prospective employers, and

institutions of higher learning with a predictive device so that each student is more likely to be placed in an environment conducive to success.

The Board authorizes a system of class ranking, determined by the sum of the total grade points, for students in grades 9 to 12.

The grades of students transferring to the high school from a chartered school will be recognized; however, such students shall have no established class rank for purposes of graduation honors, such as Valedictorian, etc., until such time as they have completed three (3) semesters.

Students entering the high school from non-chartered or home-based schooling shall have no established grade point average (GPA) or class rank for purposes of graduation honors, such as Valedictorian, etc., until such time as they have completed six (6) semesters.

No student shall be eligible for graduation honors, such as Valedictorian, etc. unless they have been enrolled for three (3) consecutive semester(s) prior to the final semester utilized for purposes of determining such honors.

All students shall be ranked together with the exception of students in the developmentally disabled program. Class rank shall be computed by the final grade and subsequent grade points earned in all credit courses.
Any two (2) or more students whose computed grade point totals are identical shall be given the same rank. The rank of the student who immediately follows a tied position will be determined by the number of students preceding him/her and not by the rank of the person preceding him/her.

A student's weighted grade point average, unweighted grade point average, total grade points earned, and rank in class shall be entered on his/her transcript and shall be subject to the Board's policy on release of student records

SCHEDULE CHANGES:

Students may make changes to their schedule during the allotted scheduled time each semester (i.e., first five days of the semester) without penalty if the change can be made without overloading classes. Changes that require moving a student from one difficulty level to another will have precedence over other changes. Changes can be made up to ten days with administration approval.

All schedule change requests require the completion of a change form obtained in the Counseling Office. A Schedule Change Form, properly signed by all parties involved, must be returned to the Counseling Office in order for the final changes to be made in the computer. Submission of a request does not guarantee the change will be made. Permission of the principal must be secured in some cases.

Any student who drops a course after the allowed drop period receives an “F” “WDF” for the course. The “F” “WDF” will appear on the grade card, and the student’s transcript and will be figured into the point average. Students are expected to follow their current schedule until a new schedule is provided.

- Note: London High School has many options where students would be able to leave school early such as College Credit Plus, Ag Business Works, Internship Opportunities, and outside work experiences. Some of these options can be performed with Senior Option.
- Students that are taking advantage of using Senior Option will have their schedule changed if they are recommended to Triple A. Students can earn the privilege of Senior Option back.

OHIO HIGH SCHOOL ATHLETIC ASSOCIATION ELIGIBILITY

GRADES 9-12: To be eligible, a student must be currently enrolled in school and must have received passing grades in a minimum of five (5), one-credit courses or the equivalent and maintain a 1.5-grade point average in the immediately preceding grading period. If a student passes five one-credit courses or the equivalent but does not achieve a 1.5 GPA, that student may use a one-time waiver during their four years of high school.

For eligibility purposes, summer school grades may not be used to substitute for failing grades received during the final grading period of the regular school year or for lack of enough subjects taken in the preceding grading period.

Knowing and following all OHSAA standards will enable students to protect their athletic eligibility. It is also important for students to know that they must meet all the standards in order to be eligible. For additional information refer to **www.ohsaa.org**/eligibility.

Do not change a course schedule or drop a course without first consulting with a school counselor or athletic administrator to determine whether it will affect eligibility.

Eligibility for each grading period is determined by grades received in the preceding grading period. Semester and yearly grades have no effect on eligibility. To be eligible as a ninth grader, a student must be currently enrolled in school and must have received a passing grade in a minimum of four classes in the immediately preceding grading period.

SEMESTERS OF ELIGIBILITY

When a student enrolls in grade 9 the first time, he/she has eight (8) semesters of athletic eligibility taken in order of attendance whether he/she participates or does not participate.

*Please keep in mind that Physical Education I or II does not count toward eligibility.

HONORS COURSE PLACEMENT:

Students who choose to pursue Honors courses must have achieved a 3.0 unweighted grade point average in prior courses within the department or have a recommendation from a teacher.

COLLEGE ADMISSION:

Students who intend to go to college should become aware of the entrance requirements of the college or university they wish to attend and arrange their high school curriculum to meet these requirements. Students who are undecided about a choice of college are advised to follow this minimum college prep curriculum:

CREDITS:	**AREA:**
4	Credits of English
4	Credits of Mathematics (Including Algebra I, II, and Geometry)
3	Credits of Science (Lab-based classes)
3	Credits of Social Studies
3	Credits of World Language (some colleges have their own requirements)
1	Credit of Fine Arts

It should be pointed out that college admission cannot be assured simply by the accumulation of the required credits, but it is dependent to a great extent on academic excellence. Also considered are such factors as participation in extracurricular activities and recommendations from the high school staff.

LONDON UNLIMITED

London Unlimited is an educational program designed by the London City School District with the express purpose to provide hybrid and personalized educational options for students. The program incorporates the district's blended and virtual learning programs, College Credit Plus, and the district's credit flexibility policy to individualize each student's educational program. London Unlimited is designed for all students including high achieving and those that are currently experiencing difficulty in their coursework. Students may access the program at times and in a manner consistent with their interests and goals.

London Unlimited is both a concept and a brick-and-mortar educational program. As a concept, the program unites a variety of district programs to personalize learning. The program is designed to link educational opportunities to a time, place, and method, which best supports student interests and needs. All students complete a *common registration form* in order to access various educational opportunities. A student support team exists to support collaborative decisions based on data and student interest.

To participate in Credit Flex, Credit Recovery, or Internships, students must submit during the scheduling process a London Unlimited application.

Applications may be downloaded from https://www.london.k12.oh.us/page/london-unlimited.

CREDIT RECOVERY:
A student who fails a course in a tested area but passes the state's End-of-Course exam for that specific class may use the Credit Flexibility policy to petition to pass the course that was failed through the demonstration of competency on the test. A score of "4" Accomplished or "5" Advanced must be obtained for this petition to be successful. Students may also recover the course via Schools PLP.

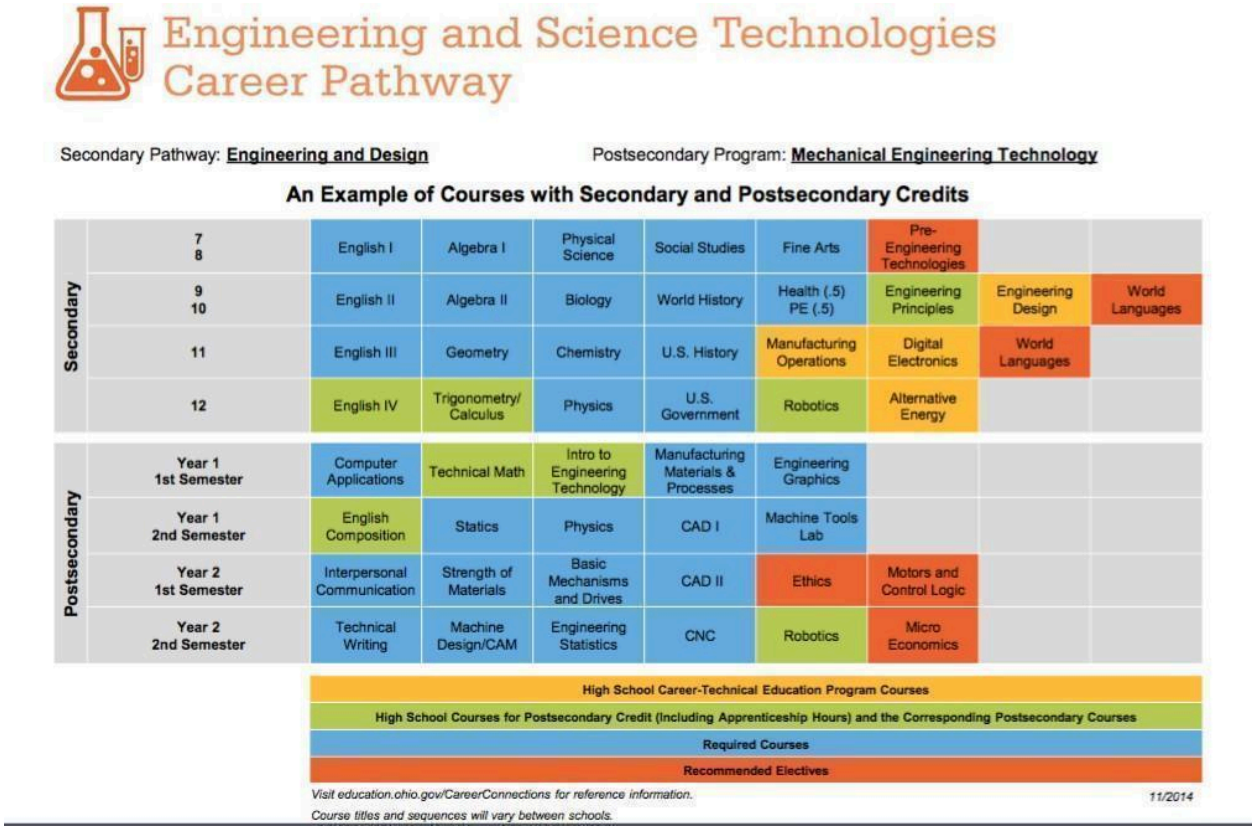
INTERNSHIPS:
London High School recognizes the value of authentic learning experiences which prepare students for life after high school. As such, LHS recognizes that internships can be valuable experiences in this preparation. To that end, LHS is partnering with local businesses to allow students to gain this valuable experience of on-the-job training.

CREDIT FLEXIBILITY:
Credit Flexibility awards credit based on competence. It enables students to earn units of high school credit based on a demonstration of subject area competency, instead of or in combination with completing hours of classroom instruction. Options include Student Course Proposal, Independent Study/Research, Distance Learning (from an accredited institution and Mastery Assessment.

London Unlimited Online Course Offerings 9-12

Mathematics:	**English:**
Algebra I A (Semester 1) Algebra I B (Semester 2) Algebra II A (Semester 1) Algebra II B (Semester 2) Applied Mathematics A (Semester 1) Applied Mathematics B (Semester 2) Business Mathematics (½ Credit) Consumer Math A (Semester 1) Consumer Math B (Semester 2) Geometry A (Semester 1) Geometry B (Semester 2) Pre- Calculus A (Semester 1) Pre- Calculus B (Semester 2) Probability & Statistics (½ Credit)	English 1A (Semester 1) English 1B (Semester 2) English 2A (Semester 1) English 2B (Semester 2) English 3A (Semester 1) English 3B (Semester 2) English 4A (Semester 1) English 4B (Semester 2) Mythology (½ Credit) Speech (½ Credit) Poetry (½ Credit) World Literature (½ Credit)
Science:	**Social Studies:**
Physical Science A (Semester 1) Physical Science B (Semester 2) Biology A (Semester 1) Biology B (Semester 2) Chemistry A (Semester 1) Chemistry B (Semester 2) Earth Science A (Semester 1) Earth Science B (Semester 2) Environmental Science (½ Credit) Great Minds in Science (½ Credit)	American Government (½ Credit) US History A (Semester 1) US History B (Semester 2) World History A (Semester 1) World History B (Semester 2) World Geography A (Semester 1) World Geography B (Semester 2) Psychology A (½ Credit) Economics A (½ Credit) Law (½ Credit)
Electives: Career Preparation (½ Credit) Psychology (½ Credit) Speech (½ Credit) World Geography A (Semester 1) World Geography B (Semester 2) Spanish I A (Semester 1) Spanish I B (Semester 2) Spanish II A (Semester 1) Spanish II B (Semester 2) Spanish III A (Semester 1) French I A (Semester 1) French I B (Semester 2)	French II A (Semester 1) French II B (Semester 2) French III A (Semester 1) French III B (Semester 2) Poetry (½ Credit) Music Appreciation A (Semester 1) Music Appreciation B (Semester 2) Physical Education A (Semester 1) Physical Education B (Semester 2) Health (½ Credit) Law (½ Credit)

Here is an example of how students could earn 15 credit hours toward an Associate of Science Degree in Mechanical Engineering Technology from Columbus State Community College, while they are in the London City School system.



Engineering and Science Technologies Career Pathway

Secondary Pathway: **Engineering and Design** Postsecondary Program: **Mechanical Engineering Technology**

An Example of Courses with Secondary and Postsecondary Credits

Secondary	7 8	English I	Algebra I	Physical Science	Social Studies	Fine Arts	Pre-Engineering Technologies		
	9 10	English II	Algebra II	Biology	World History	Health (.5) PE (.5)	Engineering Principles	Engineering Design	World Languages
	11	English III	Geometry	Chemistry	U.S. History	Manufacturing Operations	Digital Electronics	World Languages	
	12	English IV	Trigonometry/ Calculus	Physics	U.S. Government	Robotics	Alternative Energy		
Postsecondary	Year 1 1st Semester	Computer Applications	Technical Math	Intro to Engineering Technology	Manufacturing Materials & Processes	Engineering Graphics			
	Year 1 2nd Semester	English Composition	Statics	Physics	CAD I	Machine Tools Lab			
	Year 2 1st Semester	Interpersonal Communication	Strength of Materials	Basic Mechanisms and Drives	CAD II	Ethics	Motors and Control Logic		
	Year 2 2nd Semester	Technical Writing	Machine Design/CAM	Engineering Statistics	CNC	Robotics	Micro Economics		

High School Career-Technical Education Program Courses
High School Courses for Postsecondary Credit (Including Apprenticeship Hours) and the Corresponding Postsecondary Courses
Required Courses
Recommended Electives

Visit education.ohio.gov/CareerConnections for reference information. 11/2014
Course titles and sequences will vary between schools.

COLLEGE CREDIT PLUS (CCP)

College Credit Plus (CCP) is Ohio's dual enrollment program that provides students in grades 7-12 the opportunity to earn high school and college credits at the same time by taking courses from Ohio Colleges and Universities. The purpose of this program is to enhance student's career readiness and postsecondary success, while providing a wide variety of options to college-ready students, at no or limited costs to students and families. While students may take a variety of classes online or on campuses throughout Ohio, London City Schools, through a partnership with Clark State College, offers 16 CCP classes, taught at London High School, by London City Schools teachers.

CCP at London

- Pending on staffing, instructor availability and student requests; the following courses that can be offered through an instructor at London include-
    - CHM 1150- Intro to Chemistry
    - CHM 1210- General Chemistry
    - CHM 1220- General Chemistry II
    - ENG 1111- English I
    - ENG 1112- English II
    - ENG 1600- Introduction to Literature

- ENG 2300- Great Books: World Literature
- HST 1210- American History I (Prior to 1865)
- HST 1220- American History (Post 1865)
- MTH 1280- College Algebra
- MTH 1340- Pre-Calculus
- MTH 2200- Calculus I
- PLS 1100- Introduction to American Politics
- SPN 1111- Spanish 1, Beginning Spanish, Course 1
- SPN 1112- Spanish 2, Beginning Spanish, Course 2
- STT 2640- Elementary Statistics I

CCP UNDERPERFORMING STUDENTS

An **underperforming student** is defined as a student who meets at least one of these conditions:

1. Has a cumulative GPA of lower than a 2.0 in the college courses taken through the CCP program.
2. Withdraws from, or receives no credit for, two or more courses in the same term. (Withdrawing from a course occurs when the student dis-enrolls from a course after the census date and the secondary school is financially responsible for the tuition associated with the course.)

An **ineligible student** is defined as a student who meets the definition of an underperforming student for two consecutive terms of enrollment.

CCP Probation:

- London City Schools must place an underperforming student on CCP Probation. The school must promptly notify the student, the student's parent, and each college in which the student is enrolled. The school must advise the student and the student's parent on requirements for continuing in the program.
- A student on CCP Probation may enroll in no more than one college course and the student may not enroll in a college course in the same subject in which the student earned a grade of D or F or for which the student received no credit.
- If the student had already registered for more than one course prior to being placed on CCP Probation, the student must request each college or university to dis-enroll the student from courses as necessary. The student, as noted above, may continue to be enrolled in one course. The student must notify that college of which course the student would like to remain enrolled.
- The college will confirm the course enrollment and all course dis-enrollments in the Pre-Term Notice of Admission (14 days prior to the semester start).
- If the student fails to dis-enroll, London City Schools will promptly notify the student and the student's parent that the student will be responsible for paying all tuition, fees, and textbooks costs. That student is also then considered an ineligible student and is dismissed from the CCP program in the next term.
- If the student on CCP Probation takes one course and the grade raises the student's cumulative GPA to a 2.0 or higher, the student is removed from CCP Probation and may participate in the program without restrictions. If the grade does not raise the cumulative GPA to a 2.0 or higher, the secondary school is responsible for dismissing the student from the program.

CCP Dismissal:

- London City Schools is responsible for dismissing an ineligible student from the CCP program. The school must promptly notify the student, the student's parent, and each college or university in which the student is enrolled.
- Any student on CCP Dismissal may not take any college courses through the program.
- If the student had already registered for college courses prior to being dismissed, the student will request each college to dis-enroll the student from the courses.
- The college will confirm all course dis-enrollments in the Pre-Term Notice of Admission (14 days prior to the semester start).
- If the student fails to dis-enroll, London City Schools will promptly notify the student and the student's parent that the student will be responsible for paying all tuition, fees, and textbooks costs. The student will continue to be on CCP Dismissal for an additional term.

Note: The CCP Guidelines for Underperforming Students, the CCP Probation Process and the CCP Dismissal Process are based on the requirements found in Ohio Administrative Code 3333-1-65.13.

LHS PATHWAYS

At London City Schools we offer a number of pathways that provide opportunities for students to gain work-based learning experiences, obtain professional licenses and credentials, as well as earn credits toward post-secondary degrees, while completing their high school graduation requirements. In order to be in the best place, academically, to take advantage of these opportunities, we have suggested academic tracks for students to follow during their time at LMS/LHS. Please use the following links to view these tracks on the District's website.

Tolles Career & Technical Center Pathway

CCP-Ohio Transfer 36 Pathway

Internship Pathway

Agricultural Pathway

LONDON HIGH SCHOOL COURSE OFFERINGS COURSE AVAILABILITY:

All courses that appear in the Course Guide will run based on enrollment and instructor availability.

CLASS LOAD AND OTHER QUALIFICATIONS:

Students must be enrolled in at least six (6) courses and a lunch period each day. Extra subjects may be taken according to the needs, abilities, and interests of the student. Certain subjects have prerequisite courses as indicated in the Course Guide. Experience has shown that success in advanced-level courses is closely related to achievement in first-level courses.

LANGUAGE ARTS DEPARTMENT

ENGLISH I (1.0): NCAA APPROVED. These courses are aligned with the state's common core ELA standards. Students study the basic elements of composition, sentence structure, correct usage, and paragraph writing. Much of the course is devoted to the study of literature, including novels, short stories, plays, and poetry. A variety of forms of communication are also studied. Students use existing school technology to exhibit grade-appropriate knowledge of current multimedia resources. This course is available traditionally and through London Unlimited

HONORS ENGLISH I (1.0): NCAA APPROVED. These courses are aligned with the state's common core ELA standards and are designed for identified, highly able students. The course further develops student reading and writing skills (see English 9) by enhancing the depth and complexity of the core curriculum. Students use critical thinking skills in analyzing advanced, above-grade-level texts. Coursework includes advanced novel study and writing applications. Students use existing school technology to exhibit grade-appropriate knowledge of current multimedia resources. A variety of forms of communication are also studied. Preparation for PSAT will be introduced.

ENGLISH II (1.0): NCAA APPROVED. These courses are aligned with the state's common core ELA standards and are designed to further develop the understanding of literature. The students employ critical thinking skills to heighten their perception of how literature relates to their world. Students continue to develop language and composition skills. Existing school technology is used to exhibit grade-appropriate knowledge of current multimedia resources. This course is available traditionally and through London Unlimited

HONORS ENGLISH II (1.0): NCAA APPROVED. These courses are aligned with the state's common core ELA standards and are designed for identifying highly able students. The emphasis of the course is on literature with comparisons of literary selections. Writing and grammar skills are incorporated into the study of literature, and a seminar approach is introduced. Coursework includes advanced novel study and research. Students use existing school technology to exhibit grade-appropriate knowledge of current multimedia resources. Preparation for college admissions testing continues.

CCP COLLEGE COMPOSITION I (1.0) (Clark State ENG1111): NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.* This course is a beginning composition course that develops processes for critically reading, writing, and responding to a variety of texts in order to compose clear, concise, expository essays. Assignments will focus on the writing and revising process, academic and argumentative essays; literary examples of descriptive, narrative, expository, and persuasive modes; language issues. The course facilitates awareness of purpose, audience, content, structure, and style, while also introducing library skills, research, and documentation methods. Course reading and writing assignments may be thematically organized.

This is a College Credit Plus course offered through Clark State Community College and London City Schools. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credit and 3.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

CCP COLLEGE COMPOSITION II (1.0) (Clark State ENG1112): NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.* This course is an intermediate composition course that extends and refines skills in expository and argumentative writing, critical reading, and critical thinking. Students will write a variety of texts, including the researched essay, with a primary focus on formal, written work. This course also refines skills in researching a topic, documenting sources, and working collaboratively.

This is a College Credit Plus course offered through Clark State Community College and London City Schools. Offering this course at London High School hinges on student enrollment and instructor

availability. Successful completion of this course will earn students 1.00 high school credit and 3.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

CCP INTRODUCTION TO LITERATURE (1.0) (Clark State ENG 1600): NCAA APPROVED. *Pre/Corequisites: Students must meet criteria established by the college.*This course engages students in critical readings, discussion, and analysis of poetry, fiction, and drama.

This is a College Credit Plus course offered through Clark State Community College and London City Schools. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credit and 3.00-semester college credits.Only LHS students in grades 9-12 may take CCP courses at LHS.

CCP GREAT BOOKS: WORLD LITERATURE (1.0) (Clark State ENG 2300): NCAA APPROVED. *Prerequisite(s): Students must meet criteria established by the college.* This course engages students in a chronological selection of major works, genres, and periods of world literature beginning with the ancients and progressing through modern times.

This is a College Credit Plus course offered through Clark State Community College and London City Schools. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credit and 3.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

PUBLIC SPEAKING (0.5): NCAA APPROVED. *Prerequisite: Credit earned in English 9 and English 10*. Public Speaking stresses formal and informal communication in varied contexts such as informational, persuasive, and interviews. The course incorporates the basic skills of speaking and listening, as well as techniques of presentation. Speech and effective communication skills as well as speech composition will be stressed. This course is available traditionally and through London Unlimited

CONTEMPORARY LITERATURE (0.5): NCAA APPROVED. *Prerequisite: Credit earned in English 9 and English 10*. Contemporary Literature is an elective Course designed to build an appreciation of literature, motivate lifelong readers, and promote lifelong critical thinking. Students will read award-winning novels that include topics dealing with (but not limited to) current teenage interests/issues, cultural and societal expectations, and the gender barrier. We will read a variety of genres by a variety of authors, and hopefully, make engaging and meaningful connections to the outside world. Students will employ critical thinking skills to heighten their perception of how literature relates to them personally as well as those around them. Students will become familiar with issues in literary censorship as well as research and scholarship related to Young Adult Literature (YAL). Students will also continue to develop language and composition skills.

AMERICAN LIT (0.5): NCAA APPROVED.*Prerequisite: Credit earned in English 9 and English 10*. In this course, students read and analyze works of American literature from Colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.

POETRY (0.5): NCAA APPROVED. *Prerequisite: Credit earned in English 9 and English 10*. This course introduces students to the formal conventions of poetry as well as the basic elements that work to create a poem. Poems from different countries and different historical periods will be explored, at times from different critical perspectives. Not only will students explore different poems throughout lit, but students will also create a wide variety of poem- topical & from different perspectives. This course is available through London Unlimited

COMMUNITY ENGAGEMENT AND WRITING (0.5): *Prerequisite: Credit earned in English 9 and English 10*. This course will introduce students to Madison County and the greater London community to build a civic mindset. Elements to be involved with the course include journals, research, communication, and developing a relationship with a community partner to be able to create and finalize a community project. Hands-on projects, interviews, research, presentations, and participation in class discussions will be requirements for the successful completion of this course.

DRAMA/INTRO TO THEATER (0.5):*Prerequisite: Credit earned in English 9 and English 10*. By the end of this course, students will have a broad understanding and appreciation of many aspects of Theater Arts including but not limited to: physical parts of a theater and all of the people and jobs that make a working theater run effectively, theater through history, performing as an individual (monologues), performing with a partner (duet scenes), theater design elements (costumes/makeup, set design, special effects), and Musical Theater. Particular attention will be devoted toward reading plays and writing about storytelling elements such as plot, dialogue, stage directions, setting, etc.

DRAMA/STORYTELLING (0.5):*Prerequisite: Credit earned in English 9 and English 10*. In the first half of the course students learn how to write short stories by learning about story structure, theme, and characterization. In the second half of the course, students study film scripts and learn about scene structure, dialogue, and theme. Using Project-Based Learning concepts, they create a script, storyboards, and finally a filmed segment to showcase to the student body what they have learned about storytelling.

WORLD LIT/MULTICULTURAL LIT (0.5):*Prerequisite: Credit earned in English 9 and English 10*. NCAA APPROVED. Students read selections from world literature. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students complete guided and independent writing assignments that refine their analytical skills. They have opportunities for creative expression in projects of their choosing. Students also practice test-taking skills for standardized assessments in critical reading and writing. This course is available traditionally and through London Unlimited

FILM AS LITERATURE (0.5):*Prerequisite: Credit earned in English 9 and English 10*. This course will introduce students to the film industry and the history of cinema through the study of classic and contemporary films. Emphasis will be placed on exposing the class to a wide variety of styles and genres as well as formulating and justifying criticisms of the works. Hands-on projects, written analyses, and participation in class discussions will be requirements for the successful completion of the course.

MYTHOLOGY (0.5): NCAA APPROVED. *Credit earned in English 9 and English 10.* This course is designed for the student interested in World Mythology and the role it has played- and continues to play- in society. Overall, this course will include Creation myths and traditional hero myths from various cultures such as Greek, Roman, Egyptian, and Norse; discussion of male and female societal roles in mythology; analysis of myths' purpose(s), function(s) and characteristics cross-culturally; awareness of the presence of mythology within our own culture; comparisons of myths; a basic understanding of common and notable gods and goddesses, as well as the mythological timeline for Greek, Roman, Egyptian, and Norse cultures. This course is available traditionally and through London Unlimited

MYSTERY/SUSPENSE (0.5): *Prerequisite: Credit earned in English 9 and English 10*. NCAA APPROVED. Examine the pivotal characters in Mystery and Suspense such as the criminal, sidekick, detective, and the femme fatale. Peer inside the various subgenres of mystery and suspense including locked room mysteries, true-crime, spies, and more. Look at the impact of this literature on film, TV, radio, podcasts, websites, and other experiences. Discover new writers from other countries and learn about how they've adapted the mystery genre to suit other cultures.

SCI-FI/DYSTOPIAN LIT (0.5): *Prerequisite: Credit earned in English 9 and English 10*. NCAA APPROVED. This course is designed to increase students' knowledge of the literary genre known as Science Fiction. Emphasis will be on the study of literature--novels and short fiction--that depicts our future world, visionary scientific endeavors, and conflicts between humans, aliens, and sentient technology, and ways these endeavors can end badly. Students will study the history, exciting contemporary trends, and relevant contemporary issues in Science Fiction, including dystopia vs. utopia, artificial intelligence, a current theory concerning technology, cloning and physical science, and human psychology in a futuristic environment.

MOCK TRIAL & CRIME (0.5): *Prerequisite: Credit earned in English 9 and English 10*. Mock Trial & Crime allows students to learn first-hand about the law, court procedures, and the judicial system while also building critical 21st Century skills. Various sources such as literature, short stories, podcasts, films, documentaries, and news stories will serve as the basis for mock trials and projects. Students will practice dissecting and analyzing the case, preparing opening and closing statements to present, and creating argumentative writing pieces, like claims and rebuttals.

ENGLISH 11 (1.0): NCAA APPROVED. In English 11, students focus on the development of American Literature and compare it with ideas and forms of literature around the world. Students review the basics of the language arts, then scaffold with practices of increasing complexity to meet the required grade-level objectives of analytical thinking. Engaging in a step-by-step process, students learn to write complex analyses and argument papers. Students also learn principles in research, teamwork, discussion, and presentation skills. A play and novel highlights literary devices with supporting literature. Additionally, students explore college and career planning as well as tips for dealing with information in technology today. This course is available through London Unlimited

ENGLISH 12 (1.0): NCAA APPROVED. This course challenges students with rigorous and rewarding assignments. Students will explore the development of English language and survey famous British fiction authors. They will examine the effect of time upon literary works, as well as make advanced studies of drama, plot structures, devices, and motivations. Students will probe nonfiction texts as well as read and analyze British literature. Conducting research, organizing ideas, and preparing presentations, students will create an argumentative persuasive text, a story with conflict and resolution, a poem, a script, and an analytical essay. In addition, students will learn to write for real-life situations such as e-mail and professional resumés. Students will apply critical thinking skills to gain perspective on the media and analyze speeches. This course is available through London Unlimited

WORLD LANGUAGE DEPARTMENT

If a student is interested in attending a four-year college or university, it is *strongly* recommended that they take *two years of the same language* as it is a common admissions requirement.

*Students enrolling in a first-level modern language as an 8th-grade student must be recommended by their current ELA/Reading teacher and must have a final course average of a minimum of a C in ELA and Reading.

FRENCH I (1.0): NCAA APPROVED. *Prerequisites: For 8th-grade students, a minimum of a C average in ELA/R and a recommendation from a teacher*. Emphasis is upon the development of basic pronunciation, a solid beginning vocabulary, and the grammar of simple sentences. Useful everyday French is stressed through various audio-visual means, reading, and the study of geography, manners, and customs. Cost – Workbook. This course is available traditionally and through London Unlimited

FRENCH II (1.0): NCAA APPROVED. *Prerequisite: Credit in French I*. Progress is made toward building a more extensive vocabulary and knowledge of grammar, which will allow the student to express himself/herself more fully. Conversation and writing in French are stressed. Reading concerns modern as well as past French life. This course is available traditionally and through

FRENCH III (1.0): NCAA APPROVED. *Prerequisite: Credit in French II*. This course includes a more advanced study of grammar and the reading of several short stories or other fiction by French authors. A continued study of French life/culture and increased conversation in the language will be emphasized. Cost - Workbook, if not previously purchased. This course is available traditionally and through

FRENCH IV (1.0): NCAA APPROVED. *Prerequisite: Credit in French III*. This course focuses on increasing fluency of spoken and written language. Conversation and composition are emphasized. Some points of grammar are reviewed. Instruction, as well as student participation, is in the target language. This course is a continuation of a more in-depth study of the culture and history of France and other Francophones. Cost - Workbook, if not previously purchased.

SPANISH I (1.0): NCAA APPROVED. *Prerequisites: For 8th-grade students, a minimum of a C average in ELA/R and a recommendation from a teacher*. Beginning Spanish provides the foundation and basic knowledge for communicating in Spanish, reading Spanish, and writing in Spanish. Emphasis is upon the development of basic pronunciation, a solid beginning vocabulary, and the grammar of simple sentences. Useful, everyday Spanish is stressed through various audio-visual means, reading, and the study of geography, manners, and customs. This course is available traditionally and through

SPANISH II (1.0): NCAA APPROVED. *Prerequisite: Credit in Spanish I.* This course is a continuation of the study of the Spanish language. It includes a more advanced verb and vocabulary study to increase the ability to speak, read, and write in Spanish. Students will further their study of the Spanish culture.This course is available traditionally and through

SPANISH III (1.0): NCAA APPROVED. *Prerequisite: Credit in Spanish II.* This course includes a more advanced study of grammar, an emphasis on the acquisition of vocabulary, and a deeper study of the culture of Spain and Latin America. This course continues to practice composition and conversation in Spanish. Most of the instruction and student participation is in the target language. This course is available traditionally and through

CCP SPANISH I (1.0) Clark State SPN 1111- Beginning Spanish, Course I: NCAA APPROVED. *Students must meet criteria established by the college.* Integration of interpersonal, interpretive and presentational modes of communication. Practice real world communicative tasks in culturally appropriate ways. Identify products, practices, and perspectives of the target culture(s). Use grammar, vocabulary, and structures to meet functional performance goals to build a foundation for continued language learning. Perform in the Novice range on the American Council of Teachers of Foreign Languages (ACTFL) Performance Scale.

This is a College Credit Plus course offered through Clark State Community College and London City Schools**. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credits and 3.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

CCP SPANISH II (1.0) Clark State SPN 1112- Beginning Spanish, Course II: NCAA APPROVED. *Students must meet criteria established by the college.* Integration of interpersonal, interpretive and

presentational modes of communication. Practice real world communicative tasks in culturally appropriate ways. Identify products, practices, and perspectives of the target culture(s). Use grammar, vocabulary, and structures to meet functional performance goals to build a foundationfor continued language learning. Perform better and stronger in the Novice range on the American Council of Teachers of Foreign Languages (ACTFL) Performance Scale.

This is a College Credit Plus course offered through Clark State Community College and London City Schools**. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credits and 3.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

MATH DEPARTMENT

*Note – Calculators: In many math and science classes, a calculator is required. Some courses require a scientific calculator, and other courses require a graphing calculator. Graphing calculators will perform the same necessary functions needed of a scientific calculator and will also perform the graphing functions needed for some of the math and science courses. Parents/guardians may want to consider only buying one calculator, a graphing calculator, so as to not spend money on a calculator twice in a student's high school career, since many students will need the graphing calculator during their high school years. These calculators are sometimes needed in college courses, as well. *In terms of the graphing calculators, a TI-84 model is recommended.*

FOUNDATIONS OF ALGEBRA 1A (1.0) *Admittance is based on standardized test scores and teacher recommendations only.* This course is designed for students to learn the material for Algebra I over two years. The students will learn the first-semester content this year. These students will not take the state end-of-course exam this year, but they will take it next year after completing Foundations of Algebra IB.

FOUNDATION OF ALGEBRA 1B (1.0) *Admittance is based on standardized test scores and teacher recommendations only***.** This course is only offered to students that passed Algebra IA. This course is the second semester of the content taught in Algebra I. The students will take the state end-of-course exam for graduation in April.

ALGEBRA 1 (1.0): NCAA APPROVED. These courses are designed to review positive and negative numbers and the language of Algebra. Furthermore, the student will cover solving linear, quadratic, and exponential equations, understanding and utilizing exponents, adding, subtracting, multiplying, and dividing polynomials, solving systems of equations and graphing linear functions and inequalities along with the study of descriptive statistics. Scientific calculator required. Graphing calculator, TI 84 is recommended*. This course is available traditionally and through

HONORS ALGEBRA 1 (1.0) NCAA APPROVED This course will cover the same topics as Algebra I, however, topics will be explored deeper with more rigorous assessments.

APPLIED MATHEMATICS (1.0) NCAA APPROVED. Applied Mathematics covers the fundamental mathematics necessary for students to obtain a broad range of skills. Although problems in this course apply to a variety of topics from Algebra to Geometry, emphasis is given to real-world applications. Students write and solve linear equations to represent situations such as the value of a car or the distance that a plane travels during a trip. They also learn to solve quadratic equations and find the maximum value of quadratic equations. Students explore area, perimeter, and volume, and then they apply these concepts to situations such as building a swimming pool. Students calculate conversions between the U.S. customary system of measurements and the metric system. Geometry concepts presented in this course include the Pythagorean Theorem, using similar triangles, finding dimensions, and interpreting scale on a map. Finally, students use statistical concepts to interpret data

sets and turn those data sets into graphical representations.This course is available through

GEOMETRY (1.0): NCAA APPROVED*. Prerequisite: Credit in Algebra I or currently enrolled in Algebra 1.* The students will learn about points, lines, and planes and how they make geometric figures. The students will learn how to organize information and present it in a logical order in proofs. They will also learn how to do the basic construction of segments, angles, bisectors, and parallel and perpendicular lines. They will study the basic trigonometric functions and be able to use them to solve problems involving triangles. The students will learn the properties of figures and find ways to compute area, surface area, and volume. Furthermore, the students will continue their study of probability. Scientific calculator required. Graphing calculator, TI 84 is recommended*. This course is available traditionally and through

HONORS GEOMETRY (1.0): NCAA APPROVED. *Prerequisites - Performance in Algebra I with an average of 3.00 unweighted or recommendation from a teacher.* The students will learn about points, lines, and planes and how they make geometric figures. The students will learn how to organize information and present it in a logical order in proofs. They will also learn how to do the construction of segments, angles, bisectors, parallel and perpendicular lines, perpendicular bisectors, angle bisectors, and how to use those to make geometric figures. They will study the basic trigonometric functions and be able to use them to solve problems involving triangles and areas. The students will learn the properties of figures and find ways to compute area, surface area, and volume. Scientific calculator required. Graphing calculator, TI 84 is recommended*.

ALGEBRA 2 (1.0): NCAA APPROVED. *Prerequisite: Credit in Algebra I.* These courses will expand on the ideas taught in Algebra I and Geometry. There will be an emphasis on quadratic and cubic equations as well as functions and their roots and their applications. The students will work on simplifying and performing operations on radicals, as well as working with exponential, logarithmic, and trigonometric functions equations, and their applications. A graphing calculator is required; TI 84 is recommended*. This course is available traditionally and through

HONORS ALGEBRA 2 (1.0): NCAA APPROVED. *Prerequisite: Credit in Algebra I. Performance in math courses with an average of 3.00 unweighted or recommendation from a teacher.* These courses are an accelerated version of the Algebra II class. The students will cover the material that the Algebra II class covers, along with an introduction to conics. A graphing calculator is required; TI 84 is recommended.

HONORS PRECALCULUS (1.0): NCAA APPROVED. *Prerequisite: successful completion of Algebra II* Precalculus is a course designed to prepare students for a collegiate-level Algebra course. The purpose of this course is to reinforce mathematical symbols, operations, functions, and graphing concepts necessary to be successful in higher math courses. The course includes a study of functions and graphs, solutions of equations and inequalities, properties of polynomials, rational, exponential, logarithmic functions, right triangle trigonometry, radians and the unit circle, graphing trigonometric equations, trigonometric identities, and inverse functions and trigonometric equations. A graphing calculator is required; TI 84 is recommended.

CONSUMER MATH (1.0) *Prerequisite: Algebra II.* The first semester of this course is designed to help students improve their math skills. Students will participate in math skills needed to survive as intelligent consumers in today's society. Topics will include the mathematics of personal income, buying a car and related expenses, purchasing various types of insurance, housing, unit pricing, discounts and mark-ups, banking, budgeting, investments, taxes, travel, and fitness. The focus is on applying math skills to real-world situations, not the mechanics of how to do math. This course is available traditionally and through

PROBABILITY & STATISTICS (1.0) NCAA APPROVED. This course is designed to encourage student awareness of the importance of mathematics in the modern world. This course is an introduction to the study of probability, interpretation of data, and fundamental statistical problem solving. The course will cover basic statistical concepts that will prepare the student to take a college level statistics course in the future. Students will expose and analyze data, and learn to use technology in solving statistical problems. This course is available traditionally and through

APPLICATIONS OF GEOMETRY (1.0) *Prerequisite: Algebra II.* The focus is on applying geometry skills to real-world situations and occupations, not just the mechanics of how to do the math, with emphasis on practicing and maintaining skills, providing technical applications of geometry through concepts, applying concepts to real-world problems, and providing time to explore each concept thoroughly.

BUSINESS MATHEMATICS (1.0) NCAA APPROVED. In Business Mathematics, students discover a variety of basic mathematical concepts and tools for real-word mathematical application including algebraic equations, formulas, operations using fractions, decimals, and percentages. This course shows students how to work with percentages to solve application problems and how to research investment and insurance options. Students learn to graph a function from an equation, and they work with ratios and proportions. Additionally, students explore the proper methods of preparing and analyzing income statements and balance sheets. They also study the ways in which to calculate real estate loan payments, and they learn to read and interpret graphs to represent data in the business world. This course also discusses mean, median, and mode as it relates to the distribution of data.

This course is available through

CCP COLLEGE ALGEBRA (1.0) (Clark State MTH 1280): NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.* Algebraic expressions, coordinates and graphs, transformation and composition of functions, inverse functions, polynomial and rational functions, complex numbers, synthetic and long division, remainder and factor theorem, exponential and logarithmic functions, systems of equations. Scientific Calculator required.

This is a College Credit Plus course offered through Clark State Community College and London City Schools**. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credits and 4.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

CCP ELEMENTARY STATISTICS 1 (1.0) (Clark State STT 2640): NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.*Introduction to statistical techniques and methodology, including terminology, sample methods, descriptive statistics, data analysis, data relationships, elementary set theory, elementary probability, random variables, binomial distribution, contingency tables, and estimation; with a laboratory exploration of probabilistic and statistical concepts, and compilation of routine statistical computations. Scientific Calculator required.

This is a College Credit Plus course offered through Clark State Community College and London City Schools**. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credits and 3.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

CCP TRIG/PRE-CALCULUS (1.0) (Clark State MTH 1340): NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.*Transformation and composition of functions, inverse functions, polynomial and rational functions, synthetic and long division, remainder and factor theorem, exponential and logarithmic functions, systems of equations and inequalities, analytic geometry, matrices and determinants, Gauss-Jordan, sequences and series, trigonometric functions,

solving triangles, laws of sines and cosines, unit circles, vectors, graphs of trigonometric functions, polar coordinates, trigonometric identities, and trigonometric equations. Scientific Calculator required.

This is a College Credit Plus course offered through Clark State Community College and London City Schools**. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credits and 5.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

CCP CALCULUS (1.0) (Clark State MTH 2200) *Prerequisite:*Students must meet criteria established by the college. Limits, derivatives, and integrals of functions of a single variable. Continuity, rules of differentiation; derivatives of trigonometric, inverse trigonometric, exponential, and logarithmic functions; higher derivatives, implicit differentiation, related rates, linear approximation, differentials, Mean Value Theorem, extrema, concavity, optimization, curve sketching, antiderivatives, area, definite integrals, Fundamental Theorem of Calculus, indefinite integrals, Net Change Theorem, integration by substitution, and area between curves.

This is a College Credit Plus course offered through Clark State Community College and London City Schools**. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credits and 5.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

SCIENCE DEPARTMENT

*Note – Calculators: In many math and science classes, a calculator is required. Some courses require a scientific calculator, and other courses require a graphing calculator. Graphing calculators will perform the same necessary functions needed of a scientific calculator and will also perform the graphing functions needed for some of the math and science courses. Parents/guardians may want to consider only buying one calculator, a graphing calculator, so as to not spend money on a calculator twice in a student's high school career, since many students will need the graphing calculator during their high school years. These calculators are sometimes needed in college courses, as well. In terms of the graphing calculators, a TI-84 model is recommended.

PHYSICAL SCIENCE (1.0): NCAA APPROVED. *Prerequisite: None*. These courses are an introduction to the general concepts of the physical sciences. Topics covered include the laws of motion, work and power, energy and forces, waves, chemical and physical properties, and changes in matter. A good math background is essential. Laboratory work is included in this course. Cost - Fees will cover the cost of consumable lab supplies. Scientific calculator required*. This course is available traditionally and through LONDON UNLIMITED

HONORS PHYSICAL SCIENCE (1.0): NCAA APPROVED. *Prerequisite: Students must have a 3.0 average in Science or a teacher recommendation*. This course is an introduction to the general concepts of the physical sciences. Topics covered include the laws of motion, work and power, energy and forces, waves, chemical and physical properties, and changes in matter. A good math background is essential. This course will go more deeply into content and move at a faster pace than the regular Physical Science course. Laboratory work is included in this course. Cost - Fees will cover the cost of consumable lab supplies. Scientific calculator required*.

BIOLOGY (1.0): NCAA APPROVED. These courses examine fundamental principles of biology. Topics include the organization of living things, scientific method, cell, and molecular biology, genetics, ecology, evolution, and the relationship between biology and society. Laboratory work is included in this course. Cost - Fees will cover the cost of consumable lab supplies. This course is available traditionally and through LONDON UNLIMITED

HONORS BIOLOGY (1.0): NCAA APPROVED. *Prior performance in science courses with an average of 3.0 unweighted or recommendation from a teacher.* These courses cover the material in Biology but are more in-depth. Additional topics include current technological advances and environmental issues. Cost - Fees will cover consumable lab supplies.

ANATOMY & PHYSIOLOGY (1.0): NCAA APPROVED. *Prerequisites: Biology and Chemistry and a grade of C or better in both Biology and Chemistry*. Human Anatomy & Physiology is a lab science, which takes a system-by-system approach to the study of the gross and microanatomy of the human body. These courses will be aided by the dissection and study of the comparative structures of various sheep organs and a full cat dissection. Laboratory work is included in these courses. Cost - Fees will cover the cost of consumable lab supplies. This course meets the criteria of an advanced science.

CHEMISTRY (1.0): NCAA APPROVED. *Prerequisite: earned one high school science credit*. These courses are a study of the structure and properties of matter. A balanced approach will be used in combining chemical theories and concepts with quantitative problems. Topics studied will include the periodic table, chemical bonding, the mole concept, acid-base systems, and chemical equilibrium. Laboratory work is included in this course. Cost - Fees will cover the cost of goggles, aprons, and consumable lab supplies. Scientific calculator required*. This course meets the criteria of an advanced science. This course is available traditionally and through London Unlimited

HONORS CHEMISTRY (1.0): NCAA APPROVED. *Prior performance in science courses with an average of 3.0 unweighted or recommendation from a teacher.* These courses cover the material in Chemistry I in more depth. Additional topics include thermodynamics, the structure of liquids and solids, and electrochemistry. Laboratory work is included in this course. Cost - Fees will cover the cost of goggles, aprons, and consumable lab supplies. Scientific calculator required*. This course meets the criteria of an advanced science.

PHYSICS (1.0): NCAA APPROVED. *Prerequisite: 2.0 unweighted in Algebra II or recommendation from a teacher.* These courses study the mathematical and physical relationships of matter and energy. Topics studied include laws of motion, general relativity, quantum mechanics, properties of light and sound waves, optics, and electrical circuits. Laboratory work is included in this course. Cost - Fees will cover the cost of consumable lab supplies. Graphing calculator required*. This course meets the criteria of an advanced science.

EARTH SCIENCE/GEOLOGY (0.5): Is a high school level course, which satisfies the Ohio Core science graduation requirements. Physical geology and earth science incorporates other sciences and introduces students to key concepts, principles, and theories within geology and earth science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications. Topics covered in this class are minerals, types of rocks, the earth's history, the earth's resources, and glacial geology. This course meets the criteria of an advanced science.

ENVIRONMENTAL SCIENCE (0.5): NCAA APPROVED. is a high school level course, which satisfies the Ohio Core science graduation requirements. Environmental Science incorporates other sciences and introduces students to key concepts, principles, and theories within Environmental Science. Investigations are used to understand and explain the behavior of nature in a variety of inquiry and design scenarios that incorporate scientific reasoning, analysis, communication skills, and real-world applications. Topics covered in this class are the earth's systems, the earth's resources, and global environmental problems and issues.This course meets the criteria of an advanced science. This course is available traditionally and through London Unlimited

EARTH SCIENCE (0.5): NCAA APPROVED. *Prerequisite: Physical Science and Biology*. This course covers the biosphere, atmosphere, and hydrosphere. Topics include biodiversity, ecosystems, population dynamics, atmospheric properties, ocean currents, water flow, climate, biogeochemical cycles and weather. Laboratory work is limited in this course. No fees for this course.This course meets the criteria of an advanced science.This course is available traditionally and through

GREAT MINDS IN SCIENCE (0.5): Sometimes there are simply more questions than answers. Does life exist on other planets? How extreme is the human ability to survive? Will the issue of global warming ever be solved? Today, scientists, explorers, and writers are working to answer such questions by using extensive inquiry to find innovative solutions. Similar to such famous minds from history as Edison, Einstein, Curie, and Newton, the scientists of today are finding ways to revolutionize our lives and the world. Great Minds in Science: Ideas for a New Generation takes an in-depth look at the extraordinary work of these individuals and demonstrates how their ideas may very well shape the world of tomorrow. This course is available through

CCP INTRODUCTION TO GENERAL CHEMISTRY (1.0) (Clark State CHM 1150) NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.* Intensive preparation (equivalent to a year of high school chemistry) for General Chemistry (CHM 1210). Introduction to the composition, structure, properties, and transformations of matter, including dimensional analysis, atomic structure, bonding, chemical reactions, states of matter, energy changes, solutions, reaction rates, chemical equilibrium, acids, bases, and buffers, introduction to chemical laboratory equipment and methods, including mass and volume measurements, graphing, observing chemical and physical properties, carrying out stoichiometric measurements and titrations, drawing conclusions from experimental data, designing experiments to test hypotheses. (* Indicates objectives pertinent to the laboratory portion of the course as well as lecture.) 4 credit hours. Prerequisite(s): ENG 0900 with a grade of C or higher, and MTH 0650 or MTH 0750, with a grade of C or higher. Global Awareness. Lab and other fees: $65. This course meets the criteria of an advanced science.

This is a College Credit Plus course offered through Clark State Community College and London City Schools. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credits and 4.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

CCP GENERAL CHEMISTRY I (1.0) (**Clark State CHM 1210)**: NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.* Significant figures; fundamental structures of atoms and molecules, introduction to quantum mechanics, atomic orbitals; principles of ionic, covalent, and metallic bonding, including Lewis structures, valence bond and molecular orbital theories of bonding; mole concept, stoichiometry, and the laws of composition; acids and bases, oxidation-reduction chemistry, and solutions; thermochemistry; behavior of gasses, classification of elements, including periodicity; nuclear chemistry; applications of chemistry in society; molecular modeling; collection, analysis, and reporting of data; problem-solving using algebraic methods. (*Indicates objectives pertinent to the laboratory portion of the course as well as lecture.) 5 credit hours. Prerequisite(s): ENG 0900 with a grade of C or higher, MTH 0750 with a grade of C or higher, and CHM 1150 with a grade of C or higher or one year of high school chemistry with a grade of C or higher. Pre/Corequisite(s): ENG 1111 and MTH 1280. Lab and other fees: $85.This course meets the criteria of an advanced science.

This is a College Credit Plus course offered through Clark State Community College and London City Schools. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credits and 5.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

CCP GENERAL CHEMISTRY II (1.0) (**Clark State CHM 1220)**: NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.* Intermolecular forces and phase changes; solutions and colligative properties; chemical kinetics; chemical equilibrium; acid-base equilibria; thermodynamics (including entropy and free energy); electrochemistry; descriptive chemistry, including chemical properties and classification of the elements, periodic patterns of reactivity; introduction to organic and biochemistry; applications of chemistry in society; collection, analysis and reporting of data; problem-solving using algebraic methods.(* Indicates objectives pertinent to the laboratory portion of the course as well as lecture.) Prerequisite(s): CHM 1210 with grade of C or higher Pre/Corequisite(s): ENG 1112 Lab Fee: $85.00 This course meets the criteria of an advanced science.

This is a College Credit Plus course offered through Clark State Community College and London City Schools. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credits and 5.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

SOCIAL STUDIES DEPARTMENT

MODERN WORLD HISTORY (1.0): NCAA APPROVED. *Prerequisite: None*. These courses represent the chronological study of World History from 1750 to the present. Students will examine those critical events which have shaped the world in which we live. As students continue to examine historic eras, they develop a deeper understanding of their role as citizens and continue to expand their command of social studies skills and methods.

MODERN AMERICAN HISTORY (1.0): NCAA APPROVED. *Prerequisite: None*. These courses represent the chronological study of the history of the United States from 1877 to the present. Students will examine the critical aspects of foreign policy and domestic affairs. As students study historic eras, they develop a deeper understanding of their role as citizens and continue to expand their command of social studies skills and methods. This course is available traditionally and through

CCP AMERICAN HISTORY I: (HST 1210 Clark State American History to 1865) NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.* American history from before colonization to the Civil War. Focus is on the political, social, economic, and cultural developments that shaped colonial, early national, and antebellum United States. 3 credit hours. Pre/Corequisite(s): ENG 0980 with a grade of C or higher. Global Awareness.

CCP AMERICAN HISTORY II: (HST 1220 Clark State - American History Since 1865) NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.* American history from the end of the Civil War to the present day. Focus is on political, social, cultural, and economic events that shaped current United States history. 3 credit hours. Pre/Corequisite(s): ENG 0980 with a grade of C or higher. Global Awareness.

AMERICAN GOVERNMENT (1.0): NCAA APPROVED. *Prerequisite: None*. These courses provide a detailed study of the American Government with an emphasis on the three blocks of government, the political process, and the factors that influence and affect each aspect of the federal government. Students also explore comparative government and economic systems. Lastly, students focus on state and local government with an emphasis on the issues that affect them closer to home. This course is available traditionally and through

AMERICAN ISSUES (1.0): NCAA APPROVED. *Prerequisite: Modern American History credit.* These are elective courses for juniors and seniors. Students will be challenged to integrate and apply their

knowledge of American History to the problems and issues of America today. Individual rights, conflict, and foreign policy are examples of issues that will be examined and understood through a historical context. Students will also examine elements of popular culture (Film, literature) to understand how history is portrayed in the media. It is believed that the application of historical knowledge to the issues of today will lead to an increased understanding of the world today.

CURRENT ISSUES (0.5): NCAA APPROVED. *Prerequisite: None*. Current Issues is a semester-long elective class that allows students to build on the informational foundation developed in other areas of study. Students will build a broad understanding of current events in the world today. It will give students an awareness of how current events are shaped by past events. Students will utilize a variety of resources such as television shows, newspapers, magazines, and informational Internet sites, along with other appropriate sources. Student development will be measured through individual and/or group presentations, class discussions, map work, and/or traditional assessments. Cost - Course Fee(s).

LAW AND SOCIETY (0.5): NCAA APPROVED. *Prerequisite: None*. This elective course is designed to provide a practical understanding of the law and the legal system that will be of use to students in their everyday lives. Students will examine the need for laws, the causes of crime, the impact of crime on victims and society, and due process of law by studying criminal law, juvenile justice, and individual rights and liberties.

WORLD GEOGRAPHY (1.0): NCAA APPROVED. In World Geography, students will learn the six essentials of geography: spatial terms, places and regions, physical systems, human systems, environment and society, and uses of geography. After a broad survey of Earth's structure, hydrosphere and climates, the focus of each Unit narrows to a particular region of the world. By examining the physical geography of each region, including water resources, climate, vegetation, and natural resources, students will understand the influence of geography on economic activities, human culture, and history. In addition, students will investigate the impact of human activity on the environment, including pollution and development, and consider the implications. This course is available through London Unlimited

LAW (0.5): NCAA APPROVED. In the Law course, students examine citizen obligations to law enforcement, the court system, and the rules and regulations that all Americans are expected to uphold. They explore the terminology and the regulations that structure and control society. Students study different types of crime and the law enforcement powers that are put in place to regulate and diminish overall crime. Students who are interested in a law career will benefit from learning the law and justice terminology presented in this course. Warning: This content contains subject matter that may be considered offensive or graphic. This course is available through London Unlimited

ECONOMICS (0.5): NCAA APPROVED. The Economics course begins with a survey of the basic principles concerning production, consumption, and distribution of goods and services within the free enterprise system. Students will examine the rights and responsibilities of consumers and businesses, analyze the interaction of supply, demand, and price, and study the role of financial institutions. Types of business ownership, market structures, and basic concepts of consumer economics will be surveyed. The impact of a variety of factors including geography, government intervention, economic philosophies, historic documents, societal values, scientific discoveries and technological innovations on the national economy, and economic policy will be an integral part of the course. Students will also examine the knowledge and skills necessary as self-supporting adults to make critical decisions relating to personal financial matters such as seeking college financial aid, using credit wisely, and balancing financial accounts. This course is available through London Unlimited

PSYCHOLOGY 1 (0.5): NCAA APPROVED. *Prerequisite: None*. The primary focus of this elective course is to provide students with the opportunity to develop and apply the knowledge, skills, and

attitudes necessary for the effective interpretation of the human form of thought in developmental and sociological environments. Students will participate in projects that will provide them the opportunity to conduct academic research and utilize the outcomes of this research in the consideration of solutions to current issues.

PSYCHOLOGY 2 (0.5): NCAA APPROVED. *Prerequisite: Psychology 1*. The primary focus of this elective course is to build on the knowledge, skills, and attitudes developed in Psychology 1. Students will take an in-depth look at lifespan development, social psychology, behaviorism, abnormal psychology, and other related areas.

AMERICAN HISTORY THROUGH FILM (0.5): NCAA APPROVED. In this semester elective course, students will examine major events and movements throughout History. Students will use film, literature, and primary and secondary sources to understand and evaluate political, social, and cultural movements that have shaped history. In addition to viewing films, students will be expected to complete readings on assigned topics and multiple writing activities. Students will develop skills such as identifying bias, evaluating the information presented in multiple formats, presenting information informally, and writing and defending their position(s). Students will build on their limited knowledge of history to focus on a deeper analysis of the material.

CCP INTRODUCTION TO AMERICAN POLITICS (1.0) (Clark State PLS 1100): NCAA APPROVED. *Prerequisite: Students must meet criteria established by the college.*Historical foundations of US government; theoretical underpinnings of important government documents; political behavior, voting behavior, and the campaign process. Policymaking process and the role of interest groups and the media. The history and role of political parties in the US. Three branches of the United States government and how they function. Formal rules and procedures in American government. 3 credit hours. Pre/Corequisite(s): ENG 1111.

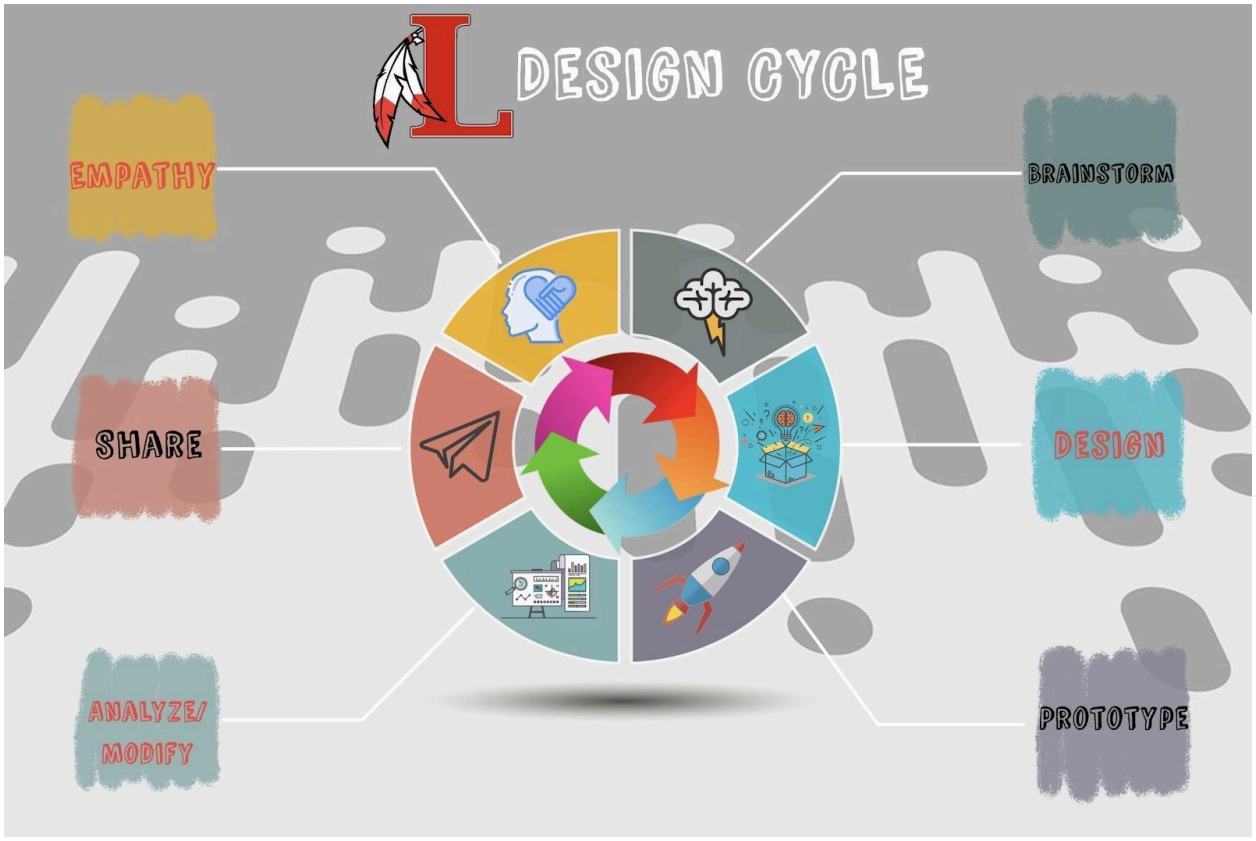
This is a College Credit Plus course offered through Clark State Community College and London City Schools. Offering this course at London High School hinges on student enrollment and instructor availability. Successful completion of this course will earn students 1.00 high school credits and 3.00-semester college credits. Only LHS students in grades 9-12 may take CCP courses at LHS.

POP CULTURE IN HISTORY I (0.5): In this course, students will critically analyze eras of history and focus on the culture of the times. Students will progress through American History in an effort to determine how society reacted to events and how movies, fads, music, and culture impacted daily lives. We will determine what pop culture is, why people care about it, and how it truly is a reflection of the values of society. Topics will include: What is Pop Culture? TV and Pop Culture. Music and Pop Culture. Movies and Pop Culture.

POP CULTURE IN HISTORY II (0.5): In this course, students will critically analyze eras of history and focus on the culture of the times. Students will progress through American History in an effort to determine how society reacted to events and how movies, fads, music, and culture impacted daily lives. We will determine what pop culture is, why people care about it, and how it truly is a reflection of the values of society. Topics will include: What is Pop Culture? Consumerism and Pop Culture. Pop Culture and Its Influence on Style. Life-Changing Events and Pop Culture.

HISTORY OF BOARD GAMES (0.5): A class that looks into the use of and development of board games as a pastime over the centuries. With the development of leisure time due to the creation of machinery and time saving methods of doing common tasks, people have developed a way to entertain themselves. Board games have been developing since ancient times when games such as "Go", a Chinese game involving markers on a grid developed in the BC era of time, to games such as "A Ticket to Ride", a game developed to mimic the expansion and use of the railway systems in Europe and the United States.

LCS.T.E.A.M.



INTRODUCTION TO CODING (1.0) The Introduction to Coding curriculum is a flexible and approachable course that is for a wide range of high school students from diverse backgrounds. Introduction to Coding is an engaging course that explores a variety of basic computational thinking and programming concepts through a project-based learning environment. Every unit culminates in a comprehensive project and roughly 75% of student time is spent building coding projects. This course uses Snap!, an approachable visual block-based programming language with a robust toolset, perfect for introducing students to coding for the first time.

AP® COMPUTER SCIENCE PRINCIPLES (1.0) AP® Computer Science Principles introduces you to the foundations of computer science with a focus on how computing powers the world. Along with the fundamentals of computing, you will learn to analyze data, create technology that has a practical impact, and gain a broader understanding of how computer science impacts people and society. Computer Science Principles (CS Principles) curriculum is a full-year, rigorous, entry-level course that introduces high school students to the foundations of modern computing. The course covers a broad range of foundational topics such as programming, algorithms, the internet, big data, digital privacy and security, and the societal impacts of computing.

AP® COMPUTER SCIENCE A (1.0) AP Computer Science A is equivalent to a first-semester, college-level course in computer science for CS majors. The course introduces students to computer science using the industry-standard Java programming language and presents fundamental topics that include problem-solving. AP CS A has been described as one of the most challenging and rewarding courses offered at the AP level. This course emphasizes practice through working on problems, group activities, and projects that help integrate the learning objectives.

CYBERSECURITY (1.0) This course prepares students with crucial skills to be responsible citizens in a digital future. The Introduction to Cybersecurity is designed for students with some exposure to computer

science. Topics included are foundational cybersecurity topics including digital citizenship and cyber hygiene, the basics of cryptography, software security, networking fundamentals, and basic system administration.

ROBOTICS (1.0) This year-long, interactive course focuses on designing, building, and programming robots while exploring learning opportunities in various areas of STEM (science, technology, engineering, and math). Students will work in teams, improving their communication and cooperation skills through hands-on problem-solving. Using VEX robots and software, students will learn the basics of robotics and coding. The course includes both classroom learning and lab sessions. Students will also participate in a few robotics competitions, leading up to the National Robotics Challenge in Marion, Ohio in April. No prior experience is required. This course counts as 1.0 technology credit, and may be repeated more than once. This class is not a prerequisite for any other courses. Cost - Course fee.

INTRODUCTION TO AGRICULTURE (1.0): These courses are designed for 9th grade or higher. Students will be introduced to the exciting field of agriculture through the basic principles of animal science, plant science, biotechnology, mechanical engineering, and leadership development. This course is designed to be the first course in the agricultural education program and the FFA. Cost – Course fees.

ANIMAL SCIENCE (1.0): These courses are designed to introduce students to the various species of domestic livestock to develop a deeper appreciation of the animal agriculture industry and animal sciences. Topics include animal anatomy and physiology, genetics, nutrition, management, animal health, and current issues. Students will conduct a hands-on nutrition study with chickens. Anatomy and physiology will be discussed using pig dissection. Students interested in pursuing a career as a veterinarian, vet assistant/tech, or animal care professional should enroll in this course. Cost - There is a lab fee for this class.

ANIMAL AND PLANT SCIENCE (1.0): 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. Membership in the FFA is an essential part of the course providing students with leadership skills inside and outside of the classroom. Cost-There is a lab fee for this class.

FOOD SCIENCE & TECHNOLOGY (1.0): Laboratory-based courses designed to introduce students to the food science industry. Students will apply principles of chemistry and microbiology through the processing, preservation, packaging, storing, and delivering of food products. Students will also have hands-on opportunities to research and develop food products. Food safety, sanitation, and quality assurance topics will also be addressed. Cost – Course fees.

GREENHOUSE MANAGEMENT (1.0): Students will learn the operational practices needed for the successful growth of nursery stock and/or greenhouse plants. They will learn essential greenhouse practices including water and fertilizer distribution, lighting, ventilation, and temperature control. Students will learn pest and disease identification and control along with bio-security practices. Students will demonstrate knowledge of propagation methods, plant health, nutrition, and growth stimulation. Throughout this course, business and employability skills will be emphasized. Membership in the FFA is an essential part of the course providing students with leadership skills inside and outside of the classroom.

MECHANICAL PRINCIPLES (1.0): *Prerequisite: Students need to have been enrolled in an agricultural education program or have teacher approval*. Students will engage in the mechanical

principles utilized in animal and plant production systems. They will learn electrical theory, design, and wiring, along with applying principles of welding metals in relation to hot and cold metals. Students will identify, diagnose, and maintain small engines. Throughout the course, students will learn critical components of the site and personal safety, as well as communication and FFA leadership skills. Cost - Course fees.

AG BUSINESS (1.0): Using the problem-solving approach students will learn job-seeking skills, interviewing, maintaining a job/career, and preparing for college and/or life after high school with finance and consumer education. These courses will also focus on entrepreneurship, sales and service, leadership, and advanced record-keeping. Cost – Course fees.

AG BUSINESS WORK (1.0): *Prerequisite: Minimum of 1 year in an agricultural education class earning a 2.0. Students must be enrolled in Ag Business concurrently. This is an option for seniors only*. This cooperative work program will allow students the chance to learn job skills while being employed at an agriculturally related business. Students must have a job approved by the agricultural education teacher. Students will be expected to work a minimum of 15 hours per week. A GPA of 2.0 must be maintained to stay in this course. Grade checks and job placement records must be maintained.

INTRO TO VIDEO PRODUCTION (1.0): This class is for first year video production students. Students will learn the basics The course focuses on writing for broadcast; radio production; and the video production process, including basic camera use and editing. Students will learn to make small projects, as well as news stories.

ADVANCED VIDEO PRODUCTION (1.0): *Prerequisite: Intro to Video Production.* This lab class is for students who have previously taken the Intro to Video Production course. Students will be responsible for working in teams to create news stories and produce our school news show “LHS Now News.” This course is repeatable.

DIGITAL PHOTOGRAPHY (0.5): This semester-long, interactive course introduces students to the art and technique of digital photography. Through hands-on practice and guided instruction, students will learn how to use digital cameras effectively, compose compelling images, and enhance photos using editing software. Key topics include camera settings, exposure, lighting, composition, and post-processing techniques. Students will develop their own creative style and gain confidence in photographing various subjects such as landscapes, portraits, and action shots. By the end of the course, students will have a portfolio of work showcasing their growth as photographers. No prior experience is required. This course counts as 0.5 technology credit, not an art credit, and may not be repeated. This class is a prerequisite for Digital Photography II. Cost - Course fee.

DIGITAL PHOTOGRAPHY II (0.5): This course will expand on the principles and applications of Digital Photography I. Students will work on developing their own personal style as digital artists. Cost – Course fee.

WOODS 1 (1.0): This year-long, interactive course allows students to gain first-hand experiences in the design process and in manufacturing custom-made wood products. Students will learn to follow laboratory safety guidelines and other standard industry practices. This course includes topics of measuring, reading technical drawings, and the design process. Students will identify common hand woodworking tools and learn how to operate select power machinery in the lab. The aim is for students to complete one project each quarter. This course is designed to provide students with a broad knowledge of woodworking. No prior experience is required. This course counts as 1.0 technology credit, not an art credit, and may not be repeated. This class is a prerequisite for Woods II. Limit 20 students per class. Cost - Course fee.

WOODS 2 (1.0): *Prerequisite: A grade of 2.0 unweighted in Woods I or a recommendation from a teacher.* This year-long, interactive course allows students to continue to gain first-hand experiences in the design process while manufacturing custom-made wood products. Students are expected to have a basic mastery of woodworking and problem-solving skills, design thinking, and demonstrate the maturity to complete self-guided work. Students are graded in part by daily work performed on their projects and then on their finished woodworking products. As with all technology courses offered, safety is strongly stressed. Prior experience is required. This course counts as 1.0 technology credit, not an art credit, and may be repeated more than once. This class is not a prerequisite for any other courses. Limit 20 students per class. Cost - Course fee.

HOME MAINTENANCE (0.5): *Prerequisite: None* This semester-long, interactive course provides practical, hands-on skills for homeowners and renters to maintain and improve their homes. Topics include basic framing, electrical work, drywall, painting, plumbing, and tool safety. Additional topics may include smoke detectors, fire extinguishers, drinking water, lead, asbestos, and radon testing, flooring, sump pumps, home energy audits, and appliances. In addition to engaging group work, each student will each build one personal project to improve their home. No prior experience is required. This course counts as 0.5 technology credit and can be repeated once. This class is not a prerequisite for any other courses. Limit 20 students per class. Cost - Course fee.

FUNDAMENTALS OF TECHNOLOGY (0.5): This semester-long, hands-on course introduces students to key concepts and practical skills in modern technology, focusing on a variety of fields that drive innovation. Fundamentals of Technology covers essential topics such as electronics and soldering, programming, CAD design, and 3D printing, offering hands-on experience and real-world applications. Students will also explore materials science, product design, and the processes of metal and plastic casting, giving them a broad understanding of how everyday products are created from concept to production. No prior experience is required. This course counts as 0.5 technology credit and may be repeated more than once. This class is not a prerequisite for any other courses. Limit 20 students per class. Cost - Course fee.

INTRODUCTION TO ACCOUNTING I (0.5): Students will learn accounting concepts, skills, and competencies that are essential to making informed business decisions. The standards focus on the ability to read, interpret, and analyze financial information as well as apply generally accepted accounting principles for operating a service business. Cost- Workbook fee.

ACCOUNTING II (0.5): *Prerequisite: Accounting I* Students to expand their accounting knowledge by gaining a broader understanding of business finances. The standards focus on the ability to understand how the accounting system provides business information; recognize the various users of accounting information; and understand the dynamic nature of the business environment in which accounting information is used.

FINANCE FOR DAILY LIVING (0.5): Students will acquire knowledge and skills for money management and budgeting, taxation, banking options, investment options, stock market simulation, retirement, credit, risk management, and consumer protection. Students will be exposed to real-world financial scenarios that will help them develop a basis for independent living. This course is available traditionally and through London Unlimited

CAREER & PERSONAL MONEY MANAGEMENT (0.5): This course is aimed at teaching sophomores through seniors to be able to fine-tune career options, help with work readiness, and provide guidelines to money management. The focus of this course is to help students get and maintain a job by creating a resume and practicing interviewing skills as well as manage their finances during school and following graduation from high school. Students learn various real-world job and career related-skills as well as manage personal finances.

ECONOMICS (0.5): This course is designed to cover microeconomics and macroeconomic concepts. Students will learn to use economic reasoning skills and knowledge of major economic concepts, issues and systems in order to make informed choices as producers, consumers, savers, investors, workers, and citizens. A great introductory class for students thinking of majoring in business in college. This course is available traditionally and through LONDON UNLIMITED

DIGITAL MARKETING & SALES (0.5): This course is designed to cover concepts about marketing. Students will learn about the many ways companies, advertising agencies, and public relations firms use social networks and digital media to appeal to consumers. The course presents an overview of marketing-the business operations that connect a product or service to its user. Students will learn skills and concepts such as the four Ps of marketing, channels of distribution, sales, customer service, advertising, and promotion. Prerequisite: Introduction to Business and an instructor approved art or technology class .

INTRODUCTION TO BUSINESS (1.0): This course is designed to introduce students to the various aspects of the business world. Students will acquire knowledge of business processes, economics, business relationships, human resources, sales, and international business. Students will simulate starting a small business.

KEYBOARDING AND COMPUTER SKILLS (0.5): This course focuses on word processing skills that are used to create memos, letters, and tables. Students learn to master keyboarding techniques and build speed and accuracy. The skills learned using these techniques will benefit students in high school, college, and any other career as clear, effective communication skills are necessary.

TECH APPLICATIONS (0.5): This course will provide students with the basic Google suite practice. The course will introduce students to basic tools and applications through the completion of real-world student-centered activities. Students will be prepared for learning and working in the 21st century through communication and collaboration tools. Topics like Google Drive, Docs, Sheets, Slides, and Forms will be covered.

WEB PAGE DESIGN (0.5): This course will provide students with the opportunity to create quality visual communications and web page design. Using web page software and coding skills, students will integrate text, rollover links, and graphics to produce original web pages and other forms of visual communications.

CAREER EXPLORATION WHEEL (1.0): This course is appropriate for students that require transition services. Students will participate in unit class work, which includes but is not limited to: Creative Design, Life and Social Skills, Business, and Sports and Leisure. The course consists of nine weeks in each area and is worth full credit upon successful completion of all four sections. Units help to identify various jobs and careers in each area. Skills needed on the job will be stressed and students will work on activities, learn from speakers, learn from jobs and work around the school, and possibly visit “on-site” workplaces to explore the selected careers. Students will also focus on practical problems related to managing resources to achieve personal and family goals, making informed consumer choices, creating and maintaining a living environment, and selecting and obtaining clothing.

EMPLOYABILITY AND WORK-BASED LEARNING (1.0/1.0) **This course is limited to 11th/12th grade students who require transition services or are pre-approved through the program instructor.* Students will participate in one period of classroom-based instruction and then one period of work experience in the community. Classroom instruction will be geared to teach employability skills coursework that will prepare students for competitive employment in the community. In addition to classroom instruction, students will participate in a cooperative job sampling and work-based learning program that will allow students to work in the community and explore different career options. Students will be required to participate in job sampling activities in a different work environment at

least every quarter so they may get a sense of what type of work environment may fit their needs in the future. Students will have the opportunity to continue their work experience into their 12th-grade year if they successfully complete their work placement requirements during the first year of the course. (*Students who participate in this course will have the opportunity to earn the OhioMeansJobs Readiness Seal).* This course is repeatable.

GS GUIDED STUDY (0.25): Prerequisite: Teacher recommendation. Students will have the opportunity to receive assistance and instruction related to goals and objectives, testing accommodations, reteaching, intervention, and class work. Students will need to check their own grades daily, fill out a daily grade chart, improve organizational skills, study habits, complete homework, work on goals and objectives, and complete class assessments. Students will also be required to do weekly self-reflection journals.

YEARBOOK PUBLICATION I (1.0): Prerequisite: Enrollment is by application and instructor approval only. Yearbook Publication consists of two consecutive semester courses in which students design and create the school yearbook. A commitment of two semesters is required. Students will be responsible for the writing, editing, photography, layout, design, advertising, sales, and promotion involved in the production process. There will be a writing focus, including news writing, editing, word choice, vocabulary, ethical reporting, and other topics relating to publications. This course is repeatable.

CAREER PREPARATION (0.5): NCAA APPROVED. In Career Prep, students are given tools to be successful in future careers. The career clusters and their associated career paths are the focus of the course. Students will learn how to survey the job market, fill out paperwork, and thrive in the workplace. Students will create an electronic portfolio throughout the course. The portfolio includes letters of interest to employers, resumés and cover letters, interview preparation documents, a career plan, as well as other reports. The course is designed for students who are currently working and can leverage real-life experience into their course projects. This course is available through London Unlimited

FINE ARTS DEPARTMENT

ART I (0.5): Ideas and feelings are discovered and expressed through a variety of media. The student designs, works with color, draws faces, creates with clay, is introduced to watercolor, studies composition, and explores 3D mediums. Cost – Course fees

CERAMICS (0.5): *Prerequisite: A grade of 2.0 in Art I required or a recommendation from a teacher.* This semester-long class focuses on the production of clay objects. Different techniques and glazing approaches are studied along with the use of the pottery wheel. (Repeatable with instructor permission.) Cost – Course Fees.

DRAWING (0.5): *Prerequisite: A grade of 2.0 in Art I is required or a recommendation from a teacher.* This semester-long class allows students to master techniques related to drawing. Many different mediums are used to become more skilled in approaches to drawing and composition. (Repeatable with instructor permission.) Cost – Course fees.

PAINTING (0.5): *Prerequisite: A grade of 2.0 in Art I is required or a recommendation from a teacher.* This semester-long class allows those students who enjoy working with paints, and an opportunity to develop their skills. Several different types of paint and varying sizes of canvas and paper will be used. Students are taught how to stretch canvas and paper. (Repeatable with instructor permission.) Cost – Course fees.

SCULPTURE (0.5): *Prerequisite: A grade of 2.0 in Art I is required or a recommendation from a teacher*. This semester-long class allows students to work with all three-dimensional objects. We will

build objects; work with plaster, paper mache, and other mixed media. This is an active, hands-on class. (Repeatable with instructor permission.) Cost – Course fees.

STAINED GLASS (0.5): *Prerequisite: A grade of 2.0 in Art I is required or a recommendation from a teacher.* Students follow multiple steps that turn their design on paper into a variety of stained glass projects. They create the design, snap the glass, solder the joints and polish the piece. Protective eyewear and gloves are worn at all times to ensure safety. (Repeatable with instructor permission.) Cost – Course fees.

ART IV (1.0): *Prerequisite: Students must have senior status and have successfully completed five art courses with a C or better. Students will meet year-round for this course and will spend the year strengthening skills, fine-tuning skills, learning new mediums, and completing projects that are on par with AP Art classes. Students will also compete for scholarships, have work displayed in local businesses, compete in state contests, and have a senior display for the arts festival.* Cost - course fees.

STUDIO ART (1.0) This course is available to juniors and seniors that have completed at least three art courses and have a teacher recommendation.Students will use this class to further develop their favorite mediums and strengths. The class will be an open session with curriculum and projects catered to each individual and their level of ability and potential. This course can cross many different mediums and can prepare students for contests, portfolio submissions, and scholarships.
This course is repeatable at higher levels of difficulty, with the instructor's permission. Cost - course fees.

HIGH SCHOOL BAND I (0.5): *Prerequisite: Students need to have participated in middle school band or have equivalent experience with an instrument (2-3 years) in order to participate*.
This semester of high school band encompasses marching band, concert band, and pep band. The class focuses on marching band music from August through October. The focus will shift to concert band music in early November. Students participating in the marching band will have summer rehearsals during June and July. The schedule for the marching band will be communicated in the spring. The pep band schedule will be sent home during the fall. This course is repeatable.

- Marching Band: The marching band is a musical marching unit organized during the fall for the duration of the football season. Membership requires total dedication and maximum effort and involvement in all aspects of marching, playing, and performance. The marching band provides entertainment for home and out-of-town football games. It performs annually before thousands of spectators at various band festivals, contests, parades, and pep rallies. The marching band rehearses Monday through Friday after school; rehearsal time will be included in spring parent communications.
- Concert Band: The Concert Band is comprised of instrumentalists who may have the desire to participate in a complete concert organization. The repertoire consists of well-known and varied works for concert band. The Concert Band is comprised of members who perform several concerts throughout the year and may participate in music festivals.
- Pep Band: The pep band is a musical unit organized during the winter sports season for basketball. The pep band performs at 10 games through the months of November- February. This ensemble specializes in pop music. All students in concert band are required to attend 8 games throughout the season.

HIGH SCHOOL BAND II (0.5): *Prerequisite: Students need to have participated in middle school band or have equivalent experience with an instrument (2-3 years) in order to participate*.
Second-semester high school band encompasses concert band and pep band. Students participating in the high school band will have several required performances outside of the school day. This course is repeatable.

- Concert Band: The Concert Band is comprised of instrumentalists who may have the desire to participate in a complete concert organization. The repertoire consists of well-known and varied

works for concert band. The Concert Band is comprised of members who perform several concerts throughout the year and may participate in music festivals.

- Pep Band: The pep band is a musical unit organized during the winter sports season for basketball. The pep band performs at 10 games through the months of November-February. This ensemble specializes in pop music. All students in concert band are required to attend 8 games throughout the season.

JAZZ BAND (1.0): The Jazz band is a performance ensemble that performs at school concerts, festival competitions, and at local community events. We rehearse during the school day, during class. Students will learn and perform a challenging, fun, diverse, and expressive concert set while exploring jazz history and performance practice. This course is repeatable.

BEGINNING BAND (0.5): The Beginning Band class offers instruction on woodwind, brass, and percussion instruments with a focus on the skills necessary for long-term student success. Fundamentals stressed include proper posture and playing position, development of characteristic tone quality, and training in music literacy. The Beginning Band class is meant for students who have not previously played an instrument. It is also ideal for those who already have some experience but who may need a review and reinforcement of music reading, playing fundamentals, and techniques that are vital for lasting musical development.

LONDON SINGERS (1.0): *Prerequisite: By audition only*. Auditions will be held yearly in the spring. The London Singers will pursue a wide variety of styles, including jazz, musical theater, as well as today's top hits. This group will also be our primary competition ensemble; participating in solo & ensemble and large group. Students must provide their own uniform, which usually costs between $50.00 – $80.00. This course is repeatable.

LHS CHOIR (1.0): The newly revamped LHS Choir will be an extended performance experience. 4 after-school concerts are required throughout the year. Various other singing opportunities will be afforded to those who choose. Classes will explore good singing techniques, sight-singing strategies, and the study of music theory. This course is repeatable.

MUSIC APPRECIATION I (0.5): This first-semester course introduces the major themes, influences, and personalities that shaped (and are shaping) most of western cultural heritage through music. The overall approach of this course is not to make the students "like" the music we study; it is to help them understand and respect all types of music. Our focus will be to recognize musical characteristics, acquire knowledge about music, and develop musical skills. This course is available traditionally and through London Unlimited

MUSIC APPRECIATION II (0.5): This second-semester course is a continuation of Music Appreciation I. This course is available traditionally and through London Unlimited

AUDIO TECHNOLOGY (0.5): This course is designed for students looking for a creative musical outlet who are not interested in Band, Choir, or Music Appreciation. This course has a project-driven curriculum. Students work as individuals, as well as in teams, to create various audio projects. Whether they are learning studio recording techniques, jamming with friends, or creating proper musical forms, students have hands-on experience with a wide variety of recording devices and sound equipment. Audio Technology uses current electronic devices and techniques to address the State of Ohio's Music Content Standards as well as various other cross-curricular standards. This course differs from Music Appreciation in that participants are actively interacting with technology and with each other.

UKULELE BUILD-N-PLAY (0.5): Have you ever wanted to play the guitar, but the things are just way too big? Then you might be interested in "Ukuleles Build and Play". This is a one-semester course where students will build their own ukuleles, paint designs on their ukuleles, learn to play their

ukuleles, and take their string instrument home with them when they are done with the class. A course fee of $50.00 is required.

MUSIC THEORY I: (0.5) If you are a musician who would like to prepare for college-level music classes, or if you are just wanting to learn how to write your own music, Music Theory is a must-have class. During the semester you will learn how and why music is constructed. You will become more familiar with music terms and their functions. You will have an opportunity to write your very own compositions.

MUSIC THEORY II: (0.5) This class is a continuation of Music Theory I.

HEALTH/PHYSICAL EDUCATION DEPARTMENT

HEALTH (0.5): Health is a required course that covers general health-related topics such as nutrition, fitness, body systems/anatomy, emotional and mental health, abstinence, family and reproduction, disease prevention, and the effects of drugs and alcohol. This course is available through London Unlimited

PHYSICAL EDUCATION (*0.25*): Physical Education is a required course that combines fitness/conditioning concepts with traditional physical education. Emphasis will be placed on the physical education strands of movement, fitness, individual sports, and lifetime sports. This is a participation course designed to improve the student's overall fitness level through exercise and basic weight training while incorporating sports education rules, skills, and strategies. P.E. Waivers can be found in the guidance office if students wish to waive the P.E. requirement. The waiver exemption does not take the place of the 0.5 credits for graduation. Waivers can be used for two seasons of sports, marching band, or concert choir. Please see a school counselor for all eligible waiver exemptions. This course is available traditionally and through London Unlimited

STRENGTH & CONDITIONING (0.5): Strength and Conditioning class will provide an opportunity for the development of strength and conditioning for various sports and fitness-related activities. Free weights, exercise machines, and conditioning activities will be incorporated to promote improvement in strength, endurance, balance, agility, and speed. Students will lift on Mondays, Wednesdays, and Fridays, according to their strength program, and will participate in conditioning activities on Tuesdays and Thursdays. Proper technique, safety precautions, and proper application of the Principles of Training will be emphasized. A plan to achieve goals will be developed and implemented during this semester-long course. This course is repeatable. Credits earned from coursework such as additional physical education, or additional health courses may not be used to meet the five units of electives requirement.

SPORTS MANAGEMENT INTERNSHIP (0.5) *Prerequisites: Sophomore standing above*. The Sports Management Internship will consist of both the operations and business aspects of the sports industry. The Sports Management Intern will assist the Event Operations Associates with the planning and execution of specific sporting events. The Sports Management Interns will assist with field and event (practice and competition) site set-up, equipment management, management of the apparel process, and event operation support. Interns will receive hands-on experience in all aspects of event management. Students in this class will also work with the Film and Video Production course in working video scoreboards during sporting events and graduation. This course will be taught via independent study with the predominant portion of the work being done after-school. Students interested in participating in this course should complete a London Unlimited application and submit it during the scheduling process. This course is repeatable.

CAREER TECHNICAL PATHWAYS

Tolles Career and Technical Center

Grade	Course Name	Credits
10	Career Exploration Academy + English 10	3.5/year
11-12	Animal Management & Services	3.5/year
11-12	Art Design & Communication	3.5/year
11-12	Construction Technologies	3.5/year
11-12	Early Chilldhood Education	3.5/year
11-12	Pharmacy Technician	3.5/year
11-12	Pre-Nursing	3.5/year
11-12	Pre-Veterinary Technician	3.5/year
11-12	Exercise Science	3.5/year
11-12	Culinary Arts + Food Science	3.5/year
11-12	Cosmetology	3.5/year
11-12	Cybersecurity	3.5/year
11-12	Computer Network & Support Technologies	3.5/year
11-12	Criminal Justice	3.5/year
11-12	Firefighting & EMS	3.5/year
11-12	Engineering Technologies	3.5/year
11-12	Welding & Fabrication Technologies	3.5/year
11-12	Automotive Technologies	3.5/year
11-12	Automotive Collision Repair	3.5/year
11-12	Power Sports & Auto Services	3.5/year
12	Senior Only Programs	

Tolles is the career center associated with London City Schools. It is located in Plain City, Ohio and offers a wealth of programs for students in 11 college and career areas. Students will have an opportunity to visit Tolles during their 10th grade year. Tolles hosts an Open House in early December each year. Most of the programs offered at Tolles are for 11th and 12th grade students, and students can choose which years they participate when they apply.
Students can choose to take advantage of courses at Tolles through half day or full day attendance, and can elect to add required academic classes to their Tolles programming. Academic and career-tech instructors align curriculum to ensure high level preparation for real-world careers.

Tolles offers a modernized and personalized approach to the educational experience through hands-on experience and rich technology integration, as well as blended, online, and project-based learning. Students taking advantage of the Tolles offerings have access to the best technology and equipment to gain a valuable career-technical skill set and to prepare effectively for the workforce. Tolles teachers and support staff go
above-and-beyond to provide extra assistance to students. This includes the Learning Resource Center, which serves all students, all the time, and provides tutoring, testing prep and assistance, bilingual services, and more.

Nearly all of Tolles' career-technical programs have bi-lateral and statewide articulation agreements in place for students to earn college credit for free while enrolled. Through these articulation agreements, students can seamlessly carry college credit, both transcripted and non-transcripted, for free onto college and university partners in order to continue their education after high school. There are also opportunities to earn college credit through optional College Credit Plus courses. Another hallmark of Tolles programming is the opportunity to sit for nationally and internationally recognized and endorsed industry credentials, certifications, and licensures.

Interested students should speak to their school counselors for further information, as well as visit the Tolles website: http://www.tollestech.com

ELITE- Experiential Learning in Technical Education
The Tolles ELITE program is designed to allow associate school students the opportunity to gain experience in a career field of their interest. Students attend school for their necessary classsrs and then travel to an experiential learning business partner.

Type	Scheduling Options
Shadowing Experience ● Provides opportunities for students to observe professionals in work settings, learn the requirements of carious professions, understand the type of work related tasks required in the chosen career field, and experience the flow of a typical work day. ● Tolles application	● Blocker periods (at least two periods) ○ Beginning of the school day ○ End of the school day ● During non-school hours ● Weekends
Paid Internship ● Student gains hands-on experiences in career pathway where their interests lie. ● Student, employer, parent & Tolles establish work schedule prior to start of experience ● 10 hours per week at minimum (weekends can be included) ● Tolles application ● Interview process with employer	

Students must meet several criteria to be considered for an ELITE placement. Applications will be holistically assessed using the following guidelines.

Criteria	Details
Attendance	95%
Discipline	Major Categories- no record Minor Categories- short record Must pass employer background check, physical & drug screen, if applicable
Academics	2.5 GPA & on-track to graduate Maintain C or better in all classes (Based on report card grades)
Recommendation	Counselor or Administrator recommendation to Coordinator
Transportation	Students are responsible for their own transportation

The following is a list of programs offered at the Tolles campus:

Career Exploration

Career Exploration Academy
Tolles new Career Exploration Academy is a year-long program that offers sophomores opportunities and experiences for personal growth and career exploration. This program enables students to spend the year exploring various career fields and programs offered at Tolles. Students receive hands-on experiences inside labs of their choice to provide deeper insight into Tolles' programs and different career pathways. Whether a student decides to return to their home school or transition to a Tolles' Career Technology program, they will complete their sophomore year with increased awareness of themselves, their education, and their career goals. Students in Career Exploration Academy who decide to apply to Tolles for their junior year, are given priority status. This is a half-day only program.

Timeframe: 1-year program, half day at Tolles includes English 10

Potential Industry Credentials Earned: CPR/First Aid, OSHA 10

Agriculture & Environmental

Animal Management & Services
Students get hands-on, real-world learning experience with a wide variety of animals in our training lab and help operate Tolles' animal grooming facility that is open to the public. Students will learn a wide array of practical skills, including how to: handle and restrain all sizes of animals, clean and groom animals, assist in the operation of a kennel or animal grooming facility, administer vaccinations, meet the nutritional needs of a variety of animals, maintain sanitary and healthy environments for confined animals, and train animals. Possible career paths include animal research, training, breeding, agriculture, grooming, or pet store management.

College Credit available via articulated credits.

Core Courses Include: Animal Science & Technology, Companion Animal Selection, Nutrition, Mgmt. (Year 1), Zoo & Aquarium, Business Management for AG & Environment (Year 2)

Potential Industry Credentials Earned: Timeframe: 1-2 year program; half day at Tolles

Arts & Communication

Art Design & Communication
This program is geared to students with a passion for visual problem-solving, communication and creativity. At Tolles, students can take their artistic interests and turn it into a career in design, marketing, advertising or even animation. Students will learn manual drawing techniques, painting, photo editing and graphic design, how to use Adobe Photoshop, Illustrator and In Design, how to work with various types of media and methodologies, how to create and maintain a creative portfolio for scholarships and interviews, and how to integrate art, technology, design and academics.

College Credit Plus and articulated credits available.

Core Courses Include: Visual Design Primer, Visual Creation (Year 1), Digital Print Design, Digital Image Editing (Year 2)

Timeframe: 1-2 year program; half day at Tolles

Construction

Construction Technologies
This program provides a broad overview of a career in the construction industry, a career pathway that is fast-growing and in demand of highly skilled workers. At Tolles, students will spend time learning, designing, planning, managing, building and performing construction activities. Students will participate in hands-on industry experience and how to build experience in a career. Students will learn: skills pertaining to construction, plumbing and electricity, earn industry credentials from the Occupational Safety

and Health Administration (OSHA), learn how to proficiently operate hand and power tools, learn problem solving, critical thinking, communication and teamwork skills, earn industry credentials from the National Center for Construction Education and Research (NCCER). Become an Ohio Certified Nursery Technician, Arborist, Skid Steer Operator and Pesticide Applicator.

College Credit available via articulated credits.

Core Courses Include: Construction Technology, Construction Safety and Crew Leadership (Year 1), Construction Electrical Systems, Remodeling/Renovations (Year 2)

Potential Industry Credentials Earned: OSHA10, NCCER Core, NCCER Level One Carpentry

Timeframe: 1-2 year program; half day at Tolles

Education & Training

Early Childhood Education

Students who have a heart and mind for children and learning will find the Early Childhood Education program for them. At Tolles, students will get real-world experience in our state-licensed learning center and preschool that will prepare them for a career as a licensed child care provider or nanny, preschool teacher or teaching assistant and more. Students will jumpstart their education careers before entering college and learn how to promote
physical, social, emotional and cognitive development, essential skills in teaching, leadership, management and lesson planning, how to establish a safe and developmentally-appropriate environment for children, professional skills necessary to run a successful preschool or early childhood education center, and how to supervise, guide and care for children during their learning experiences.

CTAG available.

Core Courses include: Early Childhood Education Principles, Health, Safety and (Year 1), Infant and Toddler Education, Early Childhood Education Observation and Assessment (Year 2)

Potential Industry Credentials Earned: CPR/First Aid, Child Abuse, Communicable Disease

Timeframe: 1-2 year program; half day at Tolles

Health Sciences

Pharmacy Technician

This program is geared towards a start in a career in pharmacy. At Tolles, students receive real-world pharmacy experience with advanced industry technology, providing them with a solid foundation for any healthcare career. Students earn a National Pharmacy Technician Certification, learn medical terminology and communication skills applicable to healthcare careers, learn how to use standard pharmacy software and technology, receive all required training and skills needed to work as a pharmacy technician, gain pharmacy management and customer relation skills that will aid any healthcare profession. Tolles will help students prepare for a career as a pharmacist or pharmacy technician, or create a foundation for any healthcare career, including medical school, nursing school or more.

CTAG available. College Credit available via articulated credits.

Potential Industry Credentials Earned: CPR/First Aid, Certified Pharmacy TechExCPT

Core Courses Include: Medical Terminology, Health Science and Technology (Year 1), Medical/Dental Office Technologies, Pharmacology (Year 2)

TimeFrame: 1-2 year program; half day at Tolles

Pre-Nursing
Nursing careers are in demand and the healthcare industry has endless opportunities for growth and service. At Tolles, students will explore all the medical field has to offer with hands-on, real world learning opportunities working in top-notch labs, internships and various healthcare facilities in their community. Students learn National Healthcare standards, nursing skills and medical terminology, anatomy, physiology and medical math, technical, communication and leadership skills within real medical settings, and First Aid and CPR. With great job placement and continued education opportunities, Tolles gives students the foundation needed to prepare for careers as a nurse, nurse aide or any healthcare position with additional training.

College Credit Plus available. CTAG available. College Credit available via articulated credits.

Core Courses include: Medical Terminology, Principles of Allied Health (Year 1), Health Science and Technology, Patient Centered Care (Year 2)

Potential Industry Credentials Earned: CPR/First Aid, STNA

Timeframe: 1-2 year program; half day at Tolles

Pre-Veterinary Technician
Students who have a passion for animals and an interest in animal health are perfect for this program. At Tolles, students will get real-world experience working with professionals and live animals both on and off campus. This program will prepare students for a career in animal health while simultaneously preparing them for careers in many different healthcare fields. Students learn how to manage and care for patients, furry or human, essential skills necessary for careers in pet and human health fields, how to conduct lab tests in hematology, urinalysis microbiology and parasitology, pet and human first aid and CPR emergency procedure certifications, universal skills related to preventative care and how to perform general parameters. This program gives students the foundation needed to prepare for careers as a veterinarian, veterinary technician or assistant in laboratory diagnostics.

CTAG available.

Core Courses Include: Medical Terminology, Animal Science and Technology (Year 1), Veterinary Science, Animal Health (Year 2)

Potential Industry Credentials Earned: CPR/First Aide/AED - Human Heartsaver, OSHA10

Time frame: 1-2 year program; half day at Tolles

Exercise Science
Health and fitness is a growing industry, making the exercise science field more important than ever. Students who are active and love to invest time in other people can participate in an Exercise Science education at Tolles that will help prepare them for a career in a wide variety of fields ranging from physical therapy to athletic training to group fitness and everything in between. Skills students will learn: how the human body works and how to live a healthy lifestyle, how to correctly use exercise equipment, how to facilitate exercise and athletic training, how to design a physical fitness program, how to evaluate and assess areas involving exercise science, sports medicine and fitness, CPR and first aid emergency procedures. Tolles can provide students with a foundation necessary to pursue a career as a personal training and fitness instructor, athletic trainer, physical therapist, occupational therapist, respiratory therapist, coach or exercise specialist.

College Credit Plus available. CTAG available. College Credit available via articulated credits.

Core Courses Include: Medical Terminology, Exercise & Athletic Training (Year 1), Athletic Injuries & Prevention, Sports Exercise Psychology (Year 2)

Potential Industry Credentials Earned: CPR/First Aid, Group Fitness instructor, Personal Trainer, HIPAA Training Certificate

Timeframe: 1-2 year program; half day at Tolles

Hospitality

Culinary Arts
Food is everywhere, which means there are a lot of different opportunities for students interested in a career in Culinary Arts. At Tolles, students will get a hands-on, real world learning experience in a professional kitchen. Skills students will learn include: how to operate in a safe and sanitary environment, current cooking methods and culinary techniques used today across the industry, how to prepare a wide variety of foods and pastries,

how to use the tools and equipment found across the industry, technical, communication and management skills within a real business setting, and knowledge required to earn ServeSafe Management and ProStart Program certifications. Students can enter the industry as a cook, nutritionist, food scientist, restaurant manager and more.

CTAG available. College Credit available via articulated credits.

Core Courses Include: Hospitality Fundamentals, Fundamentals of Food Production (Year 1), Catering and Banquet Service Operations, Contemporary Cuisine (Year 2)

Potential Industry Credentials Earned: Serve Safe Manager, Pro Start Level 2, Serve Safe, Food Handler

Timeframe: 1-2 year program; half day at Tolles. Food Science 1 credit, is included.

Human Services

Cosmetology
Cosmetology is a great program for students who are creative individuals and enjoy helping others feel and look their best. The Cosmetology program is rooted in practical skills that will create a foundation for a career in the beauty industry. At Tolles, students can focus their artistic passion and turn it into a long-term career in a spa, salon, retail industry or beauty school. Skills students will learn include: how to cut, perm, relax, color, bleach and highlight all type of hair, how to complete manicures, pedicures and facials, how to keep work stations and tools clean and sanitized, how to operate a full-service salon and spa that is open to the public, management and customer service skills. Tolles provides students the foundation they need to prepare for careers as a cosmetologist, hair stylist, color artist, nail technician, salon manager, or owner.

State Licensure Available.

Core Courses Include: Trichology, Fundamentals of Hair Cutting and Styling (Year 1), Microbiology and Infection Control, Fundamentals of Chemical Services (Year 2)

Potential Industry Credentials Earned: Cosmetology License, CPR/First Aid

Timeframe: 1-2 year program; full day at Tolles

Information Technology

Cybersecurity

Are you a problem solver wanting to make a difference? If so, Tolles can help you turn your interests into an exciting ever-evolving, technical career in a variety of high-demand fields like Network Engineering, Cyber Security and IT Support. You'll:

- Develop the skills necessary to succeed in the industry in our on-campus, state-of-the-art lab
- Learn how to install and configure software programs and provide support and training
- Learn how to operate and maintain computer systems
- Develop technical knowledge of IT project planning methodology
- Learn how to design, implement and troubleshoot network infrastructures
- Optional internships during your senior year
- Learn how to implement security for computer and network systems

What can you do with a Cybersecurity education from Tolles?
With great job placement and continued education opportunities, Tolles gives you the foundation you need for success in the fast-paced computer network and IT industry. Learn the skills you need for high-demand IT careers and education opportunities.

Start earning money now
Your education with Tolles can set you up to be anything from computer support technician to engineer to IT security expert. Your certifications and possible internship experience will help you land the job you are looking for and set you up for higher wage employment.

Continue your education
You'll have the opportunity to earn industry credentials, including CompTIA: IT Fundamentals, A+, Cloud Essentials, and Security Plus that will better prepare you to further your education and training.

Core Courses

- Computer Software
- Computer Hardware
- Programming
- Cybersecurity
- Information Technology Capstone

Network & Support Technologies
Tolles helps students turn their interests into an exciting, ever-evolving, technical career in a variety of high-demand fields like Network Engineering, Cyber Security and IT Support. Students will develop the skills necessary to succeed in the industry in our on-campus, state-of-the-art lab, learn how to install and configure software programs and provide support and training, learn how to operate and maintain computer systems, develop technical knowledge of IT project planning methodology, learn how to design, implement and troubleshoot network infrastructures, optional internships during their senior year, learn how to implement security for computer and network systems. With great job placement and continued education opportunities, Tolles gives students the foundation needed for success in the fast-paced computer network and IT industry.

College Credit available via articulated credits.

Core Courses Include: Networking, Routing and Switching (Year 1), Network Management, Network Security (Year 2)

Potential Industry Credentials Earned: OSHAA 10, Cisco CCNA

Timeframe: 1-2 year program; half day at Tolles

Law & Public Safety

Criminal Justice

Through criminal justice at Tolles, students will get hands-on, real-world experience working in the community and learning from law enforcement, military and public safety experts. Explore a wide-range of opportunities in criminal investigations, forensics, emergency response and security.
Students will learn skills relevant to police work, forensics and security, how to operate equipment and technology in law enforcement and public safety fields, skills for emergency response, self-defense tactics and necessary fitness training, technical, communication and management skills within a real community setting. Potential career pathways include forensics, criminal investigation, and local law enforcement.

College Credit available via articulated credits.

Core Courses Include: American Criminal Justice System, Police Work & Practice (Year 1), Investigation, Forensics, Homeland Security (Year 2)

Potential Industry Credentials Earned: NIMS 100, NIMS 200, NIMS 700, NIMS 800, Bleeding Control 1.0, ASP Baton Certification, OC Pepper Spray, HazMat Awareness, Remote Pilot Certification, OSHA 10, CPR/First Aid, APCO Telecommunicator

Timeframe: 1-2 year program; half day at Tolles

Firefighting & EMS
This program will give students the foundation needed to pursue the firefighting career path. During this rigorous, competitive, and rewarding program, students will get hands-on experience training with highly qualified industry professionals in simulated and live burn scenarios. Students will learn first Aid and CPR, Emergency Vehicle Drivers Training, fire suppression, rescue, and emergency medicine, Hazardous Materials Training, and general operation of required tools and equipment. Tolles' program gives students the foundation needed to prepare for careers as a firefighter, emergency medical technician, paramedic, emergency dispatcher, or another public safety field.

CTAG available.

Core Courses Include: Foundations of Firefighting/EMS, Firefighter I (Year 1), Emergency Medical Technician, Firefighter II (Year 2)

Potential Industry Credentials Earned: OSHA10, CPR/First Aid, EMT Basic, Firefighter II, FEMA IS 100, FEMA IS 200, FEMA IS 700, HazMat, Bleeding Control Basic 1.0 Course

Timeframe: 1-2 year program; half day at Tolles (full day schedule at Tolles is ideal, but not required for this program)

RAMTEC Manufacturing & Engineering

Engineering Technologies
The Engineering and Manufacturing program helps prepare students for careers in engineering, robotics and manufacturing as a mechanic, production manager, engineering technician and quality assurance inspector. At Tolles, students will get hands-on learning experience in one of the most advanced robotics and manufacturing labs in the region. Students learn how to operate 3D printers to create and assemble models, how to use tools, equipment and software found across the industry, VEX robotics, engineering design, principles and manufacturing, and how to operate precision manufacturing equipment.

College Credit Plus available. CTAG available.

Core Courses Include: Engineering Design, Engineering Principles, Manufacturing Operations (Year 1), Robotics, Computer Integrated Manufacturing (Year 2)

Potential Industry Credentials Earned: OSHA10, Solidworks CSWA, Park Hydraulics, FANUC Certified CNC, FANUC Robotics, Allen Bradley/Rockwell Automations PLC

Timeframe: 1-2 year program; half day at Tolles

Welding & Fabrication Technologies
Through Welding and Fabrication students can turn their mechanical interests and steady hands into an in-demand career in the fast-growing welding industry. Students get hands-on, real-world learning experience in our on-site welding lab while working on technical projects for actual clients.
Students will learn how to read blueprints and study essential welding and fabrication procedures, gain experience with standard welding processes like Stick, MIG, TIG and Flux Core, gain skills with standard cutting techniques using Oxyfuel and Plasma, learn problem solving, critical thinking, communication and teamwork skills, learn shop safety and housekeeping skills, learn specialty skills with alloys such as mild steel, stainless steel & aluminum.

College Credit available via articulated credits.

Core Courses Include: Shielded Metal Arc Welding, Gas Metal Arc Welding (Year 1), Gas Tungsten Arc Welding, Flux Core Arc Welding (Year 2)

Potential Industry Credentials Earned: OSHA10, AWS D.1. Structural Ben Test (SMAW)

Timeframe: 1-2 year program; half day at Tolles

Transportation

Automotive Technologies
Through this program, students can start a career rooted in practical skills, away from a desk and surrounded by moving parts. Students get hands-on experience in a state-of-the-art auto lab as a platform for success in the auto industry. Students will learn real-world industry skills while they work on real customer vehicles, how to diagnose and repair engine performance concerns, how to diagnose and repair electrical systems, how to perform oil changes, tire rotations, brake system repairs, and many other maintenance tasks, and relevant and practical information regarding transportation systems. Tolles gives students the foundation needed for successful careers in auto repair, auto part sales, auto technician, service management and more.

College Credit available via articulated credits.

Core Courses include: Ground Transportation/Maintenance, Ground Transportation Electric/Electronics, Auto Braking, Auto Suspension and Steering (Year 1), Auto Engine Performance, Ground Transportation HVAC (Year 2)

Potential Industry Credentials Earned: ASE-Automotive Brakes, ASE-Automotive Suspension & Steering, ASE-Automotive Electronic/Electrical System, ASE-Automotive Engine Performance, ASE-Automotive Engine Repair, ASE-Automotive Heating & Air Conditioning, ASE-Automotive Maintenance and Light Repair, ASE-Automotive Manual Drive Train & Axles, ASE-Automotive Automatic Transmission/Transaxle

Timeframe: 1-2 year program; half day at Tolles

Automotive Collision Repair
In this program, students at Tolles work in a state-of-the-art collision lab with an industry-standard paint booth that allows students to work on
real-world projects while training within the program. At Tolles, students can turn their interest and passion for cars into a reliable and growing career in the auto industry. Students learn how to repair, replace and refinish unibody and full frame vehicles, practice welding, metal cutting, sanding, refinishing and frame alignment, earn iCar Certification and complete SP2 Safety Training, and learn how to perform auto detailing on real client vehicles. This experience provides students with the foundation needed for

success in auto body repair, auto painting and detailing, auto framing, body shop management, and insurance adjusting careers.

College Credit available via articulated credits.

Core Courses Include: Collision Nonstructural Inspection/Repair, Collision Structural Inspection/Repair (Year 1), Collision Electrical/Mechanical, Collision Painting/Refinishing (Year 2)

Potential Industry Credentials Earned: OSHA10, ICAR - Collision Repair- Non-Structural Pro Level 1

Timeframe: 1-2 year program; half day at Tolles

Power Sports & Auto Services
Careers in mechanical industries such as outdoor power equipment, power sports, auto, and truck industries are in high-demand. Dedicated students will have opportunities to work on school equipment, their own equipment and customer service jobs to learn how to service and maintain a wide variety of gas and compact diesel engines, procedures to diagnosis problems and make repairs, how to use electrical test equipment to diagnose and repair electrical concerns, and a variety of skills applicable to most mechanical careers in a variety of environments and industries.

College Credit available via articulated credits.

Core Courses Include: Sports/Recreational Power Systems, Ground Transportation Engine/Powertrain (Year 1), Ground Transportation Maintenance, Auto Braking, Auto Steering & Suspension (Year 2)

Potential Industry Credentials Earned: OSHA10, Snap-on Multimeter Certification, EETC 4-cycle Operation Certification

Timeframe: 1-2 year program; half day at Tolles

Senior Only Programs

STNA (State Tested Nurses Assistant)
Nursing careers are in demand and the healthcare industry has endless opportunities for growth and service. At Tolles, you'll explore all the medical field has to offer with hands-on, real-world learning opportunities.
This one-year, senior-only credentialed program designed to put students on the right path toward obtaining an STNA certificate.
What can you do after completing the STNA Program at Tolles? With great job placement and continued education opportunities, Tolles gives you the foundation you need to prepare for careers as a nurse, nurse aide or any healthcare position with additional training.

Digital Media
The Digital Media program is for high school seniors who:
Have an interest in storytelling and bringing that to life with video and music
Like working in groups and want to meet other aspiring artists and producers

You will learn:
Music: Students learn music and audio theory. Songwriting, beat making. Audio recording and mixing with Adobe Pro Tools software.
Video: Students learn HD camera, lighting, and audio operation. Screenwriting and storyboarding. Digital graphic design. Video editing with Adobe Premiere software.

Certifications/Credentials:
- Adobe Premiere Pro Tools User
- Leadership Excellence CPR

- OSHA DL

EMT
The EMT program is designed to help high school seniors earn their Emergency Medical Technician (EMT) Certification while also providing career exploration in other areas of Public Safety such as Firefighting, Paramedic, or Dispatch.
During this half-day, one-year program, students will build a foundation in emergency response and receive guidance and support toward continuing education or a career. An EMT is one of the first responders on the scene who provides the first line of pre-hospital care.

EMPLOYMENT READY
The Employment Ready Program gives high school seniors a new way to earn industry and graduation credentials while gaining employment-ready knowledge and skills. Tolles is offering this as a one-year senior-only program.
Increase your potential with skills that will prepare you for future employment wherever you go! Skills and benefits from this program include:

- How to operate a forklift and a manlift
- Basic skills for work and job sites
- How to work safely and avoid workplace injuries
- Basic first aid and CPR
- Real-world job experience

Industry Certifications & Credentials:

- NCCER (National Ctr for Construction Education & Research)
- Man Lift
- OSHA
- CPR

Possible Careers:

- PLC Maintenance Technician
- Cable Installer
- Controls Technician
- Forklift Operator
- Construction Laborer