

High School Graduation Requirements (*High Schools Only*) [14 Del. C. §§ 512(4), (5), (6) and (7)]

1. High schools will be expected to meet the Delaware Graduation Requirements...

2. Explain how the school will meet these requirements and monitor them through the...

Students at LTA will complete all necessary graduation requirements to graduate from the State of Delaware and LTA. All students will progress through the Instructional Core Curriculum of Delaware and the Common Core Standards.

Graduation Requirements

Incoming freshman will select a “Major” (Archway) as part of their enrollment process to LTA. Students are encouraged to work with their parents, 8th grade teachers and guidance counselors to select the best major that prepares them for college and career. During the written application interview process, LTA student recruiting team will ensure that student choices are consistent with their abilities and career plans. The state of Delaware requires all students complete a minimum of 24 credits. However, to ensure our students are college and career ready, LTA raises the bar in both rigor, academic and wellness requirements for each Archway. Additional required credits in science and social studies during grade 12 and an additional year of World Language in grade 11 will be required of students so that they meet the minimum “Commitment to Delawareans” admission criteria from the University of Delaware, as well as similar course requirements at other four-year colleges and universities. Elective courses will be offered in health/wellness, technology, advanced STEM, the arts, and engineering. LTA will utilize a Hybrid A/B Rotating Block Schedule. The schedule will include three 90-minutes blocks on M/W and three 90 minute blocks on T/R for 180 days, totaling 135 hours in each core content subject. Once a student completes their specific program of study, diplomas and high school transcripts will display the students major and concentration.

Senior Project. A Senior or Graduation/Capstone Project is a requirement to graduate from LTA. After receiving approval for a project (completed during the student’s spring semester, junior year and approved by a Senior Project panel), students are expected to complete all Senior Project components by the spring semester of their senior year.

Evaluation Procedures

Coursework Evaluation Procedures			
A	B	C	D
100 - 90	89 – 80	79 – 70	69 – 60

Grades for individual courses will be calculated using assessments of both content and 21st century learning. For example, in chemistry, a student’s grade might be computed as 70% acquisition of the chemistry standards, 10% collaboration, 10% oral and written communications, 5% creativity, and 5% professional work ethic. The specific percentages will be determined by the School Leader and teachers based on their development of the School wide Learning Outcomes during the summer prior to opening.

Quality Points Equivalency in Calculating Final Grade for a Course

Quality points for a full year course		Quality points for a semester course, semester exam and final exam	
Letter Grade	Point Value	Letter Grade	Point Value
A	8.0	A	4.0
B	6.0	B	3.0
C	4.0	C	2.0
D	2.0	D	1.0

Quality Points Equivalency in Calculating Weighted Grade Point Average (GPA)		
College Prep	Honors	AP
A = 4.0	A = 4.5	A = 5.0
B = 3.0	B = 4.0	B = 4.5
C = 2.0	C = 3.5	C = 4.0
D = 1.0	D = 3.0	D = 3.5

LTA will report un-weighted GPA’s to colleges and universities. LTA’s valedictorian will be selected based upon un-weighted final grades. Transcripts for students from LTA will reflect the course titles and final grades earned in courses for each grade level (9th, 10th, 11th, and 12th). Transcripts will also include information about how each letter grade was calculated and Grade Point Average.

3. If applicable, also explain how the school will meet the requirements for any and
 - a. Programs must follow a State-approved Pathway Standard and be of sufficient..
 - b. Applications must be approved;
 - c. Documented and appropriate labor market opportunities must sufficiently
 - d. Laboratory facilities and equipment must meet all safety requirements...
 - e. Curriculum must follow current standards and include a State-approved....
 - a. **Student access to the program must follow the Office of Civil Rights CTE...
 - f. Pathways must follow an approved Program of Study;
 - g. A Program of Study document must be submitted with the application....
 - h. Programs must include student participation in the related Career and

Explain how the school’s graduation requirements will ensure student readiness for.....

***Letters are labeled incorrectly on the original application.*

a, b) LTA will offer the Processes of Design and Engineering Archway as its only Career and Technical Education (CTE) Archway prior to its renewal in five year. LTA is committed to building the STEM pipeline among all interested students; particularly its minority and female students who are traditionally underrepresented. See the Delaware CTE Concentrators and Completers by School Year Charts below for the number of female who complete pathways in comparison to their male peers who complete pathways. By bolstering the confidence of females, providing role models, and adding a human touch to make STEM more female-friendly, LTA believes that its students will be motivated and encouraged for success in STEM fields. Summer camps, clubs, competitions with teams comprised of at least half girls, and mentoring are just a few ways that LTA will recruit females into its Processes of Design and

Engineering program. LTA will meet the provisions CTE programs and meet the provisions of the content standards approved by the Department of Education as stated in the Delaware Title 14 Education 500 Curriculum and Instruction Code 525 Requirements for CTE Programs. LTA will meet the requirements prescribed by The Carl D. Perkins Career and Technical Education Act of 2006; which requires eligible recipients of Perkins funds to have a functioning program of study.

Delaware CTE Concentrators and Completers by School Year

CTE Concentrator: A secondary student who has successfully completed at least fifty percent of the credits required to complete a state-approved CTE pathway of sequenced courses, and is enrolled in a course at the next level in the same pathway.

	2012-13	2011-12	2010-11	
Total	9868	8276	9728	
Male	5159	4314	4998	
Female	4709	3962	4730	

CTE Completers: Number of 12th grade CTE concentrators who successfully completed an approved CTE Pathway during the reporting year.

	2012-13	2011-12	2010-11	
Total	3934	4059	3927	
Male	2033	2075	2072	
Female	1901	1984	1855	

Public High School Student Enrollment by School Year

	2012-13	2011-12	2010-11	
Total	38613	38900	39124	
Grade 9	11217	11337	11416	
Grade 10	9784	9948	10147	
Grade 11	9038	8868	9097	
Grade 12	8574	8747	8464	

Melvin D'Souza, Ph.D.
 Education Associate, Data Analysis
 Delaware Department of Education
 401 Federal Street, Suite #2
 Dover, DE 19901
 Tel: (302)735-4015

c) **STEM and Jobs.** According to the Bureau of Labor Statistics, Occupational Outlook Handbook, 2010-2011 Edition, STEM job creation over the next 10 years will outpace non-STEM jobs significantly, growing 17 percent as compared to 9.8 percent of non-STEM positions. Fastest growing jobs in the future are biomedical engineers, network systems and data communications analysts and medical scientists -- all requiring post-secondary degrees in STEM fields. LTA is proposing two STEM programs of study to DDOE. Both Archways are vital in meeting the demand for qualified workers to fill these jobs. According to the Delaware STEM Council, businesses in the US and Delaware will be hard-pressed to continue operating locally and may need to move overseas where skilled labor is more readily available. LTA will use the information derived from the Student Success Plan (SSP) portfolio to determine student occupational interests, needs and educational program. Students will work in collaboration with their advisors while taking advantage of the free state afforded Career Cruising online program www.careercruising.com (accessible from any computer), to continually develop their SSP.

d) **14 DE Admin. C. 885.** LTA will strictly adhere to The Secretary of Education amended 14 **DE Admin. Code 885** Safe Management and Disposal of Chemicals in the Delaware Public School System. The amendments include, but are not limited to, the following: 1) a purpose statement; 2) addition of definitions; 3) explicit delineation of the areas the regulation applies; 4) requirements for a Chemical Safety Plan; 5) requirements for chemicals with special conditions; 6) expansion of the requirements around the storage, management and disposal of chemicals; and 7) requirements for instructional area(s) where chemicals are used. LTA technology staff will use the "Safety First" manual published by the Delaware Department of Education in 2011 (<http://www.freebookezz.com/pdf/564389019/>). LTA's technology labs will be equipped with equipment and facilities comparable to that used by local business and industry for which the CTE Program is preparing students.

e) LTA will use as a standard the Teacher Resource Guide for Recommended Curriculum Development with the crosswalk of technology education standards; which includes a state-approved end of Pathway/Archway assessment for this course both provided by the Engineering and Technology Education Department. (http://www.doe.k12.de.us/infosuites/staff/ci/content_areas/files/tech/TechnologyBinder8-30.pdf).

****Alphabets are out of order on the application form**

a) ****The** Founding Board of LTA will actively recruit students from New Castle County for its Technology Education Program. Prospective students will be given every opportunity available to peruse the Office of Civil Rights CTE (vocational education) guidelines for admission and recruitment –(<http://www2.ed.gov/about/offices/list/ocr/docs/vocre.html>). LTA will ensure that prospective students know their rights as shown below:

- OCR Complaint Process
- Sex Discrimination
- Race and National Origin Discrimination

- Age Discrimination
- Disability Discrimination
- Boy Scouts of America Equal Access Act



f) See website:

(<http://www.iteea.org/EbD/CATTsresources/StateSiteAgreements/DelawareSiteAgreement.htm>).

LTA will follow the Engineering by Design Engineering and Technology Archway STEM Cluster for its Processes of Design and Engineering curriculum. LTA will use as a model the high school program at Caesar Rodney High School.

g) See LTA's A Program of Study document in *ATTACHMENT 4F*

h) LTA students will participate in the state's Technology Student Association (TSA) and Health Occupations Students of America (HOSA) during all four years at LTA. LTA affords its students quality professional meeting, planning and training time on Fridays for 60 minutes on 180 minute rotating block network which coincides with 60 minutes of wellness and 60 minutes of an elective credit course of their choice.