

LAKE TRAVIS INDEPENDENT SCHOOL DISTRICT 2024 - 2025

CAREER & TECHNICAL EDUCATION PROGRAMS OF STUDY GUIDEBOOK

> PRESENTED BY: LTISD Career and Technical Education





The high school experience is an exciting step as you begin to explore the pathways that will take you on your life's journey after you graduate. LTHS provides students with amazing opportunities in academics, fine arts, athletics, and career & technical education.

Parents and students are urged to carefully review the information contained in this guide. This guidebook provides information about high school graduation requirements and descriptions of endorsements. It also highlights the Career & Technical Education (CTE) career clusters, programs of study, and courses. We have included career and technical education certifications and licensure options for various occupations. An 8th grade student and parent high school information about high school, graduation plans, and course registration.

High school is about preparing for life after graduation. The experiences you gain through CTE courses will provide opportunities to obtain valuable knowledge about specific programs of study that interest you. Lake Travis ISD offers a wide variety of CTE course offerings that will help you explore your desired career opportunities and certification programs designed to prepare you for life after high school.

It is important to know that in our global society, and with your qualifications and experiences, you will no longer just be competing with your friends and neighbors here in Austin or Travis County. You need to be prepared to be compared and measured against competitors for jobs locally, across our nation, and from around the world. Our goal is to provide you with a world-class education that positions you for success beyond your senior year.

Explore the guidebook and ask questions of your parents, teachers, and counselors, so that you can find the program that will best fit your needs and help you meet your educational goals. Now is the time to dream and explore the possibilities that life holds. We wish you all the best of luck on this exciting time in your life.

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Lake Travis ISD's Program of Study Guidebook is designed to help students and parents make informed decisions about planning for the future. What is included here is a great start to that process! An 8th grade student and parent high school informational meeting will be held in the Spring semester before course selection to cover important information about high school, graduation plans, and course registration.

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PLANNING Your High School Program



Planning a four-year high school program is a serious undertaking. The selection of your graduation plan is dependent on your interests and plans for future careers. Some questions to consider when making your plans are the following:

- Will you continue your education at a university, college or in a trade or technical school?
- Do you want to learn career skills in order to enter the full-time work force immediately after high school?
- Are you interested in mathematics, science, technology, engineering, or any other specialized field of study?
- Are you thinking of entering a profession that requires specialized education, such as veterinary science, medicine, or law?

The answers to these questions are extremely important when making decisions about your course selections for all four years in high school. Take some time to answer the questions above before you begin. Your interests and desire to work hard should also guide your answers. It is common for young people to change their minds about which course of study or career choice they are interested in. As you consider your options, immediate decisions regarding your graduation plans will affect your future career choices. For that reason, we recommend that you plan a diverse and challenging academic program. By taking the most diverse and most challenging academic program available to you, your options will remain open in the event your career plans should change.

Lake Travis ISD offers many ways to prepare for your future - to make certain that you have options. A wide range of programs prepare students for post-high school experiences, college, business school, technical school, military service, fine arts participation, and full-time employment.

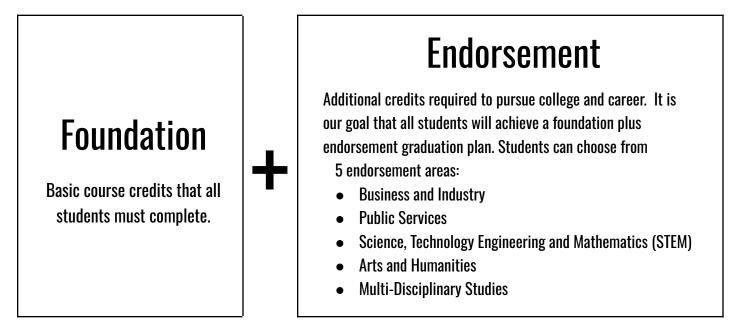
The programs offered allow a student to choose the high school program best for him/her. Outlined on the following pages are the graduation requirements for each of the state's graduation programs. Counselors and teachers will be helpful in advising you more specifically about programs offered.

HIGH SCHOOL GRADUATION REQUIREMENTS

STUDENTS ENTERING HIGH SCHOOL IN 2024 - 2025

During each year in high school at LTISD, it is the expectation that all students enroll and complete the four core subject areas. This excludes courses taken for high school credit in middle school. Parents and students are encouraged to carefully consider college entrance requirements and career readiness standards set by institutions of higher education.

FOUNDATION WITH ENDORSEMENT PROGRAM



EXIT LEVEL TEST REQUIREMENTS

Students who entered 9th grade in 2011-2012 and thereafter will take the State of Texas Assessments of Academic Readiness (STAAR). Students take the assessments when they complete the course. For additional information on requirements for STAAR and End of Course, please visit www.tea.state.tx.us/studentassessment/staar.

English Language Arts

English I English II





Social Studies U.S. History

HIGH SCHOOL GRADUATION REQUIREMENTS

Foundation High School Program with Endorsement

Foundation High School Program with Endorsement Distinguished Level of Achievement

English - 4 Credits English I, English II, English III and one credit in any authorized English course.** Math - 4 Credits Algebra I, Geometry, & two credits in any authorized Math courses.** Math - 4 Credits Algebra I, Geometry, & two credits in any authorized Math courses.** Science - 4 Credits Biology, **Chemistry, & two lab-based sciences Social Studies - 3 Credits (4 recommended) World Geography or World History, US History, Government (.5), & Economics (.5) Languages other than English - 2 Credits In the same language – Spanish, French, American Sign Language, Latin, German, Computer Science Physical Education - 1 Credit Athetics, Cheerleading, Dance 1 (Dance Aerobics), Drill Team (First Semester), Marching Band (First Semester), PE-Lifetime Fitness and Wellness Pursuits, PE-Individual Sports, PE-Team Sports, PE-Adventure/Outdoor Education, PE-Aerobic Activities, PE-Weight Training, PE Waiver Fine Arts - 1 Credit AP Art History, Art 1, Choir 1, Dance 2-4, Drill Team, Band, Dual Credit Fine Arts w/ ACC, Music 1-2 Applied, Music & Media, Music Theory AP, Orchestra, Tech Theater Arts, World Dance		
English I, English II, English III and one credit in any authorized English course.** English I, English II, English III and one credit in any authorized English course.** Math - 4 Credits Algebra I, Geometry, & Live credits in any authorized Math courses.** Math - 4 Credits Algebra I, Geometry, & Live credits in any authorized Math courses.** Science - 4 Credits Biology, **Chemistry, & two lab-based sciences Social Studies - 3 Credits (4 recommended) World Geography or World History, US History, Government (.5), & Economics (.5) Languages other than English - 2 Credits In the same language – Spanish, French, American Sign Language, Latin, German, Computer Science Physical Education - 1 Credit Athetics, Cheerleading, Dance 1 (Dance Aerobics), Drill Team (First Semester), PE-Lifetime Fitness and Wellness Pursuits, PE-Individual Sports, PE-Team Sports, PE-Adventure/Outdoor Education, PE-Aerobic Activities, PE-Weight Training, PE Waiver Fine Arts - 1 Credit AP Art History, Art 1, Choir 1, Dance 2-4, Drill Team, Band, Dual Credit Fine Arts w/ ACC, Music 1-2 Applied, Music & Media, Music Theory AP, Orchestra, Tech Theater 1, Theater Arts, World Dance	26 Credits	26 Credits (Algebra II required)
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Floctives - 7 Credits Floctives - 7 Credits	AP Art History, Art 1, Choir 1, Dance 2-4, Drill Team, Band, Dual Credit Fine Arts w/ ACC,, Music 1-2 Applied, Music & Media, Music	AP Art History, Art 1, Choir 1, Dance 2-4, Drill Team, Band, Dual Credit Fine Arts w/ ACC,, Music 1-2 Applied, Music & Media, Music
	Electives - 7 Credits	Electives - 7 Credits
Credit requirements specific to at least one endorsement. Credit requirements specific to at least one endorsement.	Credit requirements specific to at least one endorsement.	Credit requirements specific to at least one endorsement.

** See counselor for specific graduation requirement options for English, Math, and Science. AP, Dual-Credit, or Dual-Enrollment courses may be substituted for requirements in appropriate areas; check with your counselor.

All students shall be required to take a minimum of four un-weighted credits during high school. These four un-weighted Regular credits shall be used in the calculation of class rank and of the top ten percent. A student shall complete three of the four required un-weighted Regular credits prior to the beginning of his or her senior year.

ENDORSEMENT CHOICES

Career and technical education programs of study offer a sequence of courses that provide students with coherent and rigorous content. CTE content is aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in current or emerging professions. Endorsements with programs of study titled "CTE" must include four or more credits in CTE, completing two courses in the same career cluster and at least one advanced (level 3 or 4) CTE course.

Students will be able to earn one or more endorsements as part of their graduation requirements. Endorsements consist of a related series of courses that are grouped together by interest or skill set. They provide students with in-depth knowledge of a subject area.

- All endorsements require the completion of four (4) math and four (4) science credits.
- Endorsements are originally decided in 8th grade and must be declared in writing.
- Students may earn more than one endorsement
- Students may change endorsements

MULTI-DISCIPLINARY ENDORSEMENT

Allows students to enroll in courses from each of the endorsements areas.

Options include:

- 4 advanced CTE courses that prepare a student to enter the workforce
- 4 credits in each of the four foundation subject areas
- 4 credits in AP or Dual credit

ARTS & HUMANITIES ENDORSEMENT

Students will enroll in courses directly related to literature, language, culture, performing arts, and visual arts.

Options include:

- 5 Social Studies Credits
- 4 levels of same Languages other than English (LOTE)
- 2 levels of LOTE, 2 levels of LOTE in a different language
- 4 credits of fine arts in coherent sequence

BUSINESS & INDUSTRY ENDORSEMENT

Students will enroll in courses across various industries that relate to business and industry.

CTE Programs of Study Include:

- Animal Science
- Agricultural Technology & Mechanical Systems
- Environmental & Natural Resources
- Plant Science
- Architectural Drafting & Design (includes Interior Design)
- Graphic Design and Interactive Media (includes Fashion Design)

CTE Programs of Study Include:

- Digital Communications
- Accounting & Financial Services
- Business Management
- Entrepreneurship
- Marketing & Sales
- Lodging & Resort Management
- Travel, Tourism, and Attractions
- Robotics & Automation Technology

Other options:

• 3 levels of course in one of the following areas: debate, journalism, yearbook

PUBLIC SERVICES ENDORSEMENT

Students will enroll in courses directly related to health science, education, and law enforcement.

CTE Programs of Study Include:

- Teaching and Training
- Law Enforcement
- Legal Studies

- Exercise Science, Wellness, and Restoration
- Diagnostic & Therapeutic Services

STEM ENDORSEMENT

Students will enroll in courses directly related to science, computer science, engineering, and math. Algebra II, Chemistry, and Physics required for this endorsement.

CTE Programs of Study Include:

- Biomedical Science
- Engineering Foundations
- Cybersecurity
- Programming and Software Development

Other options:

- 2 Advanced Math Courses
- 2 Advanced Science Course

ACADEMIC RECOGNITIONS

DISTINGUISHED LEVEL OF ACHIEVEMENT

The Distinguished Level of Achievement (DLA) will:

- Allow a student to compete for Top 10% automatic admissions eligibility at any Texas public university, except University of Texas which has more stringent admission requirements
- Ensure the student is a more competitive applicant at the most selective colleges and universities

The Distinguished Level of Achievement Requires:

- A total of 26 graduation credits
- Algebra II
- Successful completion of at least one endorsement in the student's area of interest

PERFORMANCE ACKNOWLEDGEMENTS

There are five ways a student may earn a performance acknowledgement on their transcript for outstanding performance in:

- Dual Credit Courses.
- Bilingualism and Biliteracy

- College Board Advanced Placement Tests
- PSAT, ACT, SAT
- Earning an Industry Based Certification

The specific criteria required to earn a performance acknowledgement for the areas listed above can be found at https://bit.ly/perfack

Grade Point Average (G.P.A.)

LTHS maintains a weighted GPA and an unweighted GPA. The weighted is always and only on the 100-point scale. The unweighted is always and only on the 4-point scale.

A student's cumulative grade average begins at the end of the first semester of the 9th grade year and is recalculated at the end of each semester. Course grading weights shall be assigned to the student's semester grades for the calculation of a weighted numerical grade average in accordance with the following scale:

<u>Category</u>	Weight
Regular	multiplied by 1.0
Honors (including Pre-AP)	multiplied by 1.1
Advanced (including AP, Advanced Honors, and UT OnRamps courses)	multiplied by 1.2

All students shall be required to take a minimum of four un-weighted credits during high school. These four un-weighted Regular credits shall be used in the calculation of class rank and of the top ten percent. A student shall complete three of the four required un-weighted Regular credits prior to the beginning of his or her senior year.

CAREER & TECHNICAL EDUCATION (CTE)

EXPLORING YOUR CAREER OPTIONS

If you are considering college, technical training programs, or going straight into the workforce following graduation, you first need to complete your high school education and earn a high school diploma.

Participation in CTE programs increases wages, probability and consistency of employment, and leads to higher quality jobs. CTE WORKS!

While in high school, you will want to:

- Look at the five endorsements offered under the Foundation High School Program
- Look at the Career Clusters offered in CTE
- Determine your area of interest
- Complete a sequence of CTE courses in a program of study in a career cluster of interest
- Complete your selected endorsement along with the required foundation program to earn your high school diploma
- Learn about available jobs, and any required post-high school or technical training
- Explore new career opportunities
- Research wage and occupation information, required levels of education and training requirements
- Discover your interests and abilities, use labor market resources at

www.texasrealitycheck.com or https://www.onetonline.org/

CAREER CLUSTER INTEREST INVENTORY

Consider how you like to spend your time and what you think is interesting.

Rate each activity according to your interest level with a 0, 1, or 2: 0 (not interested), 1 (somewhat interested) or 2 (very interested).

Add the numbers in each section. The highest totals reveal the career fields in which you are most interested. Circle 3 boxes with the highest totals to research for specific jobs.

 Provide medical care for sick or injured people Learn/read about healthcare topics Deal with bodily fluids Work in a hospital, ER or clinical environment Assist with medical procedures/operations Perform first aid in an emergency situation 	Work with tools and equipment Weld or build items/projects to standard code Monitor occupational environmental regulations Ranching/raising animals Provide daily care for animals Provide medical care for animals
TOTAL FOR HEALTH SCIENCE CAREERS	TOTAL FOR AGRICULTURE CAREERS
 Enjoys food prep, cooking, baking, serving Manage a hotel/restaurant Cosmetology, barbering or spa services Plan and oversee recreation activities Plan trips or services Provide guided tours or lessons, or service 	Tutor, instruct and help others learn Assist others with technology, academics & skills Present information to a group Manage a classroom or group Work in a group or classroom setting Plan curriculum and materials for a group
TOTAL FOR HOSPITALITY & TOURISM CAREERS	TOTAL FOR EDUCATION & TRAINING CAREERS
Work in a creative/competitive environment Budget, track, oversee funds and expenditures Use information technology programs In charge of committees and people Develop and present information / campaigns Provide customer service	Learn about scientific events and topics Study elements of numbers or computers Perform experiments, or figure equations Study space, motion, chemicals, elements Learn about cybersecurity or computer systems Develop or install computer programming
TOTAL FOR BUSINESS/FINANCE/MARKETING CAREERS	TOTAL FOR INFORMATION TECHNOLOGY & ENGINEERING
 Coordinate services or assistance for others Provide counseling or guidance Listen and care about others' difficulties Provide solutions to others' difficulties Learn about human behavior and life stages Work with families and/or children 	Utilize computer animation and graphics Create digital media projects, designs Create and Edit Audio/Video productions Utilize talents to communicate info to others Design and create fashion Create and Edit Digital Photography

1 ×	

Learn about city, state or federal laws/policies Enforce / perform methods that serve the public Protect and/or serve the public over yourself Learn about historical court cases Investigate criminal activity / crime scenes Analyze criminal behavior	Work with hands-on tools and items Set up or repair electrical controls/wiring Build robots/electronic devices Write code for mechanical devices Troubleshoot problems and make repairs Design robots to automate a process
Remodel or build according to blueprints Use computer software to create designs Design creative spaces and buildings Precise attention to given to details Coordinating colors and textiles Draw / sketch building exteriors	Awareness of effects and causes of the energy industry market's status Use physical labor to work on natural energy sites Learn about energy equipment/processes Comply with inspection requirements at sites Manage a crew related to an energy site Spend time caring for the environment
TOTAL ARCHITECTURE CAREERS	TOTAL FOR ENERGY NATURAL RESOURCES CAREERS

Make sure you add the numbers in each section and write the total in the space provided.

List your three highest-ranking career fields below.

1.	
2.	
3.	

GOAL SETTING

THINGS TO THINK ABOUT

- Review your results from all your inventories
- The reason I am interested in this career cluster is
- Research two career clusters using the charts and resources provided •

CHOICE #1

Program of study:_____ Specific job in the future:_____ Does it match your values, strengths and interests? ____ Yes ____ No Wage per year? _____ Will it provide the lifestyle you want? _____ Yes _____ No How many job openings were in this career last year in the area you want to live in?_____ How many years/months of education is required after high school?_____ What college major or certificate will it require? With whom can you talk to gain more information? Where can you get this degree/certificate? Other information: _____

What are your next steps?

FINAL REFLECTION

What are your goals?

ALLALAT NA

UHUIUE #Z
Program of study:
Specific job in the future:
Does it match your values, strengths and interests?
Yes No
Wage per year?
Will it provide the lifestyle you want?
Yes No
How many job openings were in this career last year in the
area you want to live in?
How many years/months of education is required after high
school?
What college major or certificate will it require?
With whom can you talk to gain more information?
Where can you get this degree/certificate?
Other information:
FINAL REFLECTION
What are your next steps?

What are your goals?







CAREER & TECHNICAL EDUCATION

The Agriculture, Food, and Natural Resources (AFNR) Career Cluster focuses on the essential elements of life, food, water, land, and air. This career cluster includes a diverse spectrum of occupations, ranging from farmer, rancher, and veterinarian to geologist, land conservationist, welder, and machinist.







CAREERS

SALARIES*

Veterinarians \$113,722

Zoologists / Wildlife Biologists **\$77,331**

Welders **\$50,560**

OPPORTUNITIES

Farm and Ranch Loan Officers

Agricultural Analyst

Biology Technician

Welding Technology

QUALIFICATIONS

4-Year Degree

Advanced Degree

Associates Degree

Technical / Trade Certificate

AGRICULTURE, FOOD, AND NATURAL RESOURCES

PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Animal Science	Agricultural Technology & Mechanical Systems	Environmental & Natural Resources	Plant Science
1		Principles of Agriculture, F	Food, & Natural Resources	
2	(Fall) *Equine Science (Spring) *Equine Science (Spring) *Wildlife, Fisheries, Metal Technologies *Wildlife, Fisheries, Management			Greenhouse Operation & Production Entrepreneur ship I
3	Livestock Production	*Ag Structures Design & Fabrication Ag Power Systems	Energy and Natural Resource Technology	*Floral Design
4	 *Advanced Animal Science *Veterinary Medical Applications Ag Equipment Design and Fabrication 			
	Practicum in Agriculture, Food, and Natural Resources (Honors) Scientific Research and Design (Honors) Career Preparation			

Full course descriptions and prerequisites can be found in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>).

Specific course offerings and availability are subject to change due to interest and enrollment. It is the policy of Lake Travis Independent School District not to discriminate on the basis of race, color, national origin, sex, or handicap in career and technical education programs, services, or activities.



LAKE TRAVIS







ARCHITECTURE & TECHNICAL EDUCATION ARCHITECTURE & CONSTRUCTION

The Architectural Design Career Cluster explores the occupations and educational opportunities associated with developing, engineering, and designing building structures and facilities. This program of study may also include exploration into collecting and interpreting geographic information, researching and preparing maps, and interior design.





CAREERS

SALARIES*

Architect **\$90,901**

Architectural / Civil Drafters \$57,738

> Interior Designer \$59,365

OPPORTUNITIES

Civil Engineering

Architecture

Interior Design

QUALIFICATIONS

4-Year Degree

4-Year - Advanced Degree

Associates - 4-Year Degree

ARCHITECTURE & CONSTRUCTION

PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Architectural Drafting and Design (includes Interior Design)			
1	Principles of Architecture			
2	Architectural Design I Interior Design I			
3	*Architectural Design II Interior Design II Civil Engineering & Architecture (Honors)			
4	4 Practicum in Architectural Design (Honors) 4 Practicum in Interior Design (Honors) Career Preparation			
*Industry	*Industry Based Certification (IBC) offered in class at LTHS			

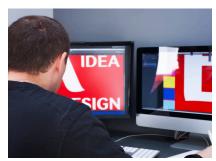
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ARTS, A/V TECHNICAL EDUCATION <u>& COMMUNICATIONS</u>

The Arts, Audio/Video Technology and Communications (AAVTC) Career Cluster focuses on careers in designing, producing, exhibiting, performing, writing, and publishing multimedia content including visual and performing arts and design, fashion design, journalism, and entertainment services. Careers in the AAVTC career cluster require a creative aptitude, a strong background in computer and technology applications, a strong academic foundation, and a proficiency in oral and written communication.



CAREERS

SALARIES*

Graphic Designers \$50,919

Multimedia Artists & Animators **\$61,157**

Audio Video Equipment Technicians **\$45,101**

OPPORTUNITIES

Graphic Designer

Animation, Interactive Technology, Video Graphics & Special Effects

Radio Television Technician

Film Production

QUALIFICATIONS

4-Year Degree

Advanced Degree

Associates Degree

4-Year Degree

ARTS, AUDIO VIDEO TECHNOLOGY, AND COMMUNICATIONS

PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Graphic Design & Interactive Media	Digital Communications	
1	Principles of Arts, A/V Technology, & Communications (Middle School only) *Digital Media (MS and HS)	Principles of Arts, A/V Technology, & Communications (Middle School only)	
2	*Graphic Design and Illustration I Animation I Fashion Design I Commercial Photography I Entrepreneurship I	*Audio Video Production I (MS and HS) Entrepreneurship I	
3	*Graphic Design and Illustration II Animation II Fashion Design II Commercial Photography II	*Audio Video Production II (Television or Broadcast)	
4	Practicum in Graphic Design and Illustration (Honors) Practicum in Animation (Honors) Practicum in Commercial Photography (Honors) Practicum in Fashion Design (Honors) Practicum in Entrepreneurship (Honors) Career Preparation Program of Study	Practicum in Audio Video Production (Honors) Practicum in Entrepreneurship (Honors) Career Preparation Program of Study	

*Industry Based Certification (IBC) offered in class at LTHS

Full course descriptions and prerequisites can be found in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>).

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Business, Marketing, and Finance

The Business, Marketing, and Finance Career Cluster focuses on careers in planning, organizing, directing, and evaluating business functions essential to efficient and productive business operations. Skills students will learn include: performing financial services, preparing financial statements, creating business plans, managing daily business operations, and creating marketing campaigns.





CAREERS

SALARIES*

Accountant **\$85,857**

Operations Manager **\$106,391**

Retail Supervisors \$46,664

OPPORTUNITIES

Marketing

Business Administration

Business / Commerce

Management Science

QUALIFICATIONS

4-Year Degree

4-Year Degree

Associates Degree

Advanced Degree

BUSINESS, MARKETING, AND FINANCE PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Accounting & Financial Services	Business Management	Entrepreneur ship	Marketing & Sales
1	Principles Of Bus,Mkt,Finance Money Matters Business Info Management	Principles Of Bus,Mkt,Finance Business Info Management	Principles Of Bus,Mkt,Finance Business Info Management	Principles Of Bus,Mkt,Finance Digital Media
2	*Accounting I Financial Math Entrepreneurship I	Business Law Virtual Business Entrepreneurship I	Entrepreneurship I	Entrepreneurship I Marketing Sports Ent Mkt I Virtual Business
3	Accounting II	*Business Management Global Business	*Entrepreneurship II	*Social Media Mrkting Advertising Retail Management Sports Ent Mkt II
4Securities and Investments Practicum in Business Management (Honors)Statistics and Business Decision MakingStatistics and Business MakingStatistics and Business Decision Making4Practicum in Business Management (Honors)Practicum in Business Management (Honors)Practicum in Business Management (Honors)Practicum in Business Management (Honors)Statistics and Business Decision Making Practicum in Business Management (Honors)Advanced Marketing Practicum in Marketing (Honors)4Career Preparation Program of StudyCareer Preparation Program of Study				

Full course descriptions and prerequisites can be found in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>).

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LAKE TRAVIS





CAREER & TECHNICAL EDUCATION EDUCATION & TRAINING

The Education and Training Career Cluster focuses on planning, managing, and providing education and training services and related learning support services. All parts of courses are designed to introduce learners to careers related to teaching, instruction. Students are introduced to a wide variety of student groups and their corresponding needs. It familiarizes them with the processes for developing curriculum, coordinating educational content, and coaching groups and individuals.







CAREERS

SALARIES*

Teacher K - 12 **\$59,507**

Education Administrator \$88,718

Education Counselor \$59,565 **OPPORTUNITIES**

Teacher Aide

Teacher

Education Administrator

QUALIFICATIONS

Certification & HS Diploma

4-Year Degree

Advanced Degree

EDUCATION AND TRAINING

PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Teaching and Training	
1	Principles of Education and Training	
2	Child Development	
3	*Instructional Practices (Educational Aide I Certification)	
4	Practicum in Education and Training (Honors) Career Preparation Program of Study	
*Industry Based Certification (IBC) offered in class at LTHS		

Full course descriptions and prerequisites can be found in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>).

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CAREER & TECHNICAL EDUCATION

The Engineering Career Cluster focuses on the planning, designing, testing, building, and maintenance of machines, structures, materials, systems, and processes using empirical evidence and science, technology, and math principles.



CAREERS

SALARIES*

Mechanical Engineer \$100,170

Civil Engineers \$85,920

Electrical Engineers \$129,010

OPPORTUNITIES

Mechanical Engineer

Electrical Engineer

Structural Engineer

Industrial Engineer

QUALIFICATIONS

Associates / 4-Year Degree

4-Year Degree

4-Year Degree

4-Year Degree

ENGINEERING

PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Engineering Foundations	
1	Principles of Applied Engineering (MS only, Formerly called Engineering I) *Introduction to Engineering Design	
2	Manufacturing Engineering Technology I Robotics I (Honors)	
3	*Engineering Science (Honors) (Formerly called Principles of Engineering) Robotics II (Honors) Digital Electronics (Honors) Civil Engineering and Architecture (Honors) Engineering and Design Development (Honors)	
Scientific Research and Design (Honors) 4 Practicum in Engineering (Honors) Career Preparation Program of Study		
*Industry Based Certification (IBC) offered in class at LTHS		

Full course descriptions and prerequisites can be found in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>).

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LAKE TRAVIS







CAREER & TECHNICAL EDUCATION HEALTH SCIENCE

The Health Science Career Cluster focuses on planning, managing, and providing therapeutic services, diagnostics services, health informatics, support services, and biotechnology research and development. To pursue a career in the health science industry, students should learn to reason, think critically, make decisions, solve problems, communicate effectively, and work well with others. This career cluster includes a diverse spectrum of occupations, ranging from athletic trainers, physical therapists, hospital technicians, dentists, physicians, and nursing.





CAREERS

SALARIES*

Registered Nurse \$79,121

Athletic Trainer \$59,124

Nurse Practitioner \$117,894

OPPORTUNITIES

Physical Therapist Assistant

Physical Therapist

Registered Nurse / BSN

Nurse Practitioner

QUALIFICATIONS

Associates Degree

Advanced Degree

Associates Degree / 4-Year Degree

Advanced Degree

HEALTH SCIENCE

PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Biomedical Science	Exercise Science, Wellness, and Restoration	Diagnostic & Therapeutic Services		
1	Principles of Biomedical Science Principles of Health Science	Principles of Exercise and Wellness Principles of Health Science	Principles of Health Science		
2	Human Body Systems Medical Terminology	Kinesiology I Medical Terminology Entrepreneurship I	Medical Terminology		
3	Medical Interventions (Honors) Anatomy and Physiology (Honors)	Kinesiology II Health Science Theory Anatomy and Physiology (Honors)	Health Science Theory Anatomy and Physiology (Honors)		
4	Pathophysiology (Honors) Scientific Research and Design (Honors)	Practicum in Entrepreneurship (Honors)	Pathophysiology (Honors)		
	*Practicum in Health Science (Honors) (CNA or CCMA Certification) Career Preparation Program of Study				
*Industry Based Certification (IBC) offered in class at LTHS					

Full course descriptions and prerequisites can be found in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>).

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CAREER & TECHNICAL EDUCATION HOSPITALITY AND TOURISM

The Hospitality and Tourism Career Cluster focuses on the management, marketing, and operations of restaurants and other food/beverage services, lodging, attractions, recreation events, and travel-related services. Students acquire knowledge and skills focusing on communication, time management, and customer service that meet industry standards. Students will explore the history of the hospitality and tourism industry and examine characteristics needed for success.







CAREERS

SALARIES*

Advertising/Promotion Manager **\$112,687**

> Event Planner \$50,596

Lodging Manager \$76,132

OPPORTUNITIES

Tourism and Travel Services Marketing

> Sport Event and Tourism Management

> > Hotel/Restaurant Management

QUALIFICATIONS

Associates Degree

4-Year Degree

4-Year Degree

HOSPITALITY AND TOURISM

PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Lodging and Resort Management	Travel, Tourism, and Attractions	
1	Principles of Hospitality and Tourism Principles of Business, Marketing and Finance	Principles of Hospitality and Tourism	
2	*Travel and Tourism Management	*Travel and Tourism Management Entrepreneurship I	
2		Sports & Entertainment Marketing I	
3	*Business Management	Global Business	
		Practicum in Entrepreneurship (Honors)	
4	Practicum in Hospitality Services (Honors) Career Preparation Program of Study		

*Industry Based Certification (IBC) offered in class at LTHS

Full course descriptions and prerequisites can be found in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>).

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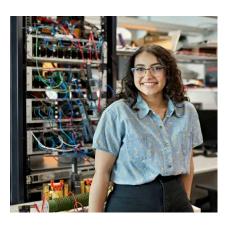


CAREER & TECHNICAL EDUCATION

The Information Technology (IT) Career Cluster focuses on building linkages in IT occupations for entry level, technical, and professional careers related to the design, development, support, and management of hardware, software, multimedia, and systems integration services.







CAREERS

SALARIES*

Computer Network Specialist \$65,250

Computer Programmer \$80,950

Information Security Analyst \$101,795

OPPORTUNITIES

Computer Programmer

Computer Network Architect

Information Security Analyst

Database Administrator

QUALIFICATIONS

Associates / 4-Year Degree

2-Year Degree

4-Year Degree

4-Year Degree

INFORMATION TECHNOLOGY

PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Cybersecurity	Programming and Software Development	
1		Computer Science Essentials (Principles of IT, MS Only) Fundamentals of Computer Science (MS and HS)	
	*Foundations of Cybersecurity (Honors)		
2	Computer Maintenance AP Computer Science Principles	AP Computer Science Principles Entrepreneurship I	
3	*AP Computer Science A	*AP Computer Science A Introduction to C# Programming Applications (Adv Honors)	
4	*Cybersecurity Capstone (Honors)	*Computer Science III (Adv Honors) Scientific Research and Design (Honors)	
	Practicum in Information Technology (Honors) Career Preparation Program of Study		
*Industry Based Certification (IBC) offered in class at LTHS			

Full course descriptions and prerequisites can be found in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>).

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LAKE TRAVIS







CAREER & TECHNICAL EDUCATION

The Law and Public Service Career Cluster focuses on planning, managing, and providing legal services, public safety, protective services, and homeland security, including professional and technical support services. Students will examine the roles and responsibilities of attorneys, police, courts, corrections, private security, and fire and emergency services. Students will learn how to appropriately and legally respond to breaches in the law according to statutory rules and regulations as well as investigate how and why the breaches occurred.





CAREERS

SALARIES*

Police Officer \$66,893

Paralegal **\$56,027**

Lawyer \$150,350

OPPORTUNITIES

Legal Assistant / Paralegal

Corrections

Forensics

Lawyer

QUALIFICATIONS

Associates Degree

Associates Degree

4-Year Degree

Advanced Degree

LAW AND PUBLIC SERVICE

PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Law Enforcement	Legal Studies	
1	Principles of Law, Public Safety, Corrections and Security		
2	Law Enforcement I	Court Systems and Practices	
2	Criminal Investigation	Business Law	
3	Counseling and Mental Health Forensic Psychology	Advanced Legal Skills and Professions (Honors)	
	Forensic Science		
4	Practicum in Law, Public Safety Corrections, and Security (Honors)		
	Career Preparation Program of Study		

Full course descriptions and prerequisites can be found in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>).

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CAREER & TECHNICAL EDUCATION MANUFACTURING (ROBOTICS)

The Manufacturing Career Cluster focuses on planning, managing, and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and manufacturing/process engineering. The Advanced Manufacturing and Machinery Mechanics program focuses on the assembly, operation, maintenance, automating processes with robotics, designing and building and robots.







CAREERS

SALARIES*

Industrial Machinery Mechanic **\$59,784**

Industrial Engineer \$101,115

Mechanical Engineer \$111,329

OPPORTUNITIES

Quality Technician

Industrial Engineering

Mechanical Engineering

QUALIFICATIONS

Associates Degree

4-Year Degree

4-Year Degree

MANUFACTURING

PROGRAMS OF STUDY CORRELATED TO THE STATE STANDARDS

Level	Robotics and Automation Technology	
1	Principles of Applied Engineering (MS only, Formerly called Engineering I) Principles of Manufacturing (MS only, formerly called Engineering II)	
2	*Manufacturing Engineering Technology I Robotics I (Honors)	
3	Manufacturing Engineering Technology II Robotics II (Honors)	
4	Practicum in Manufacturing Honors (Honors) Career Preparation Program of Study	
*Industry Based Certification (IBC) offered in class at LTHS		

Full course descriptions and prerequisites can be found in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>).

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MIDDLE SCHOOL CTE Course offerings

CAREER CLUSTER	COURSES	HIGH SCHOOL CREDITS
Engineering	Principles of Applied Engineering, (formerly called Engineering I - MS only)	Prior to 2023-2024 0.5 2023-2024 & after 1
Manufacturing	Principles of Manufacturing, (formerly called Engineering II - MS Only)	Prior to 2023-2024 0.5 2023-2024 & after 1
	Fundamentals of Computer Science	1
Information Technology	Computer Science Essentials (MS only)	1
	Principles of Arts, A/V Technology, and Communications (MS only)	1
Arts, Audio Video Technology, and Communications	Digital Media	1
	Audio Video Production I	1

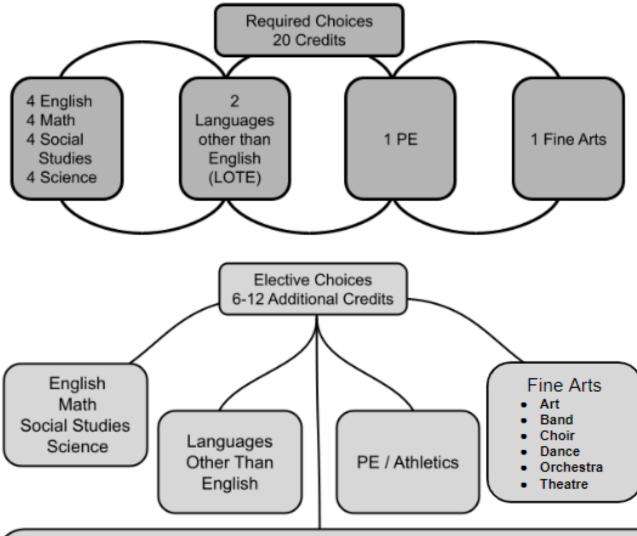
Full course descriptions and prerequisites can be found in the LTISD Middle School Course Catalog (<u>https://bit.ly/ltisdmscatalog</u>).

Specific course offerings and availability are subject to change due to interest and enrollment. It is the policy of Lake Travis Independent School District not to discriminate on the basis of race, color, national origin, sex, or handicap in career and technical education programs, services, or activities.

HIGH SCHOOL COURSE CHOICES



26 Credits Required



Career & Technical Education - CTE

- Agriculture, Food, and Natural Resources
- Architecture & Construction
- Arts, Audio Video Technology, and Communications
- Business, Marketing, and Finance
- Education & Training

- Engineering
- Health Science
- Hospitality & Tourism
- Information Technology
- Law and Public Service
- Manufacturing

LAKE TRAVIS HIGH SCHOOL PERSONAL GRADUATION PLAN Student Name: ______ Date: Student ID: ______ Graduation Year:

Graduation Plan Type	Post High School Plans	STAAR EOC
Foundation with Endorsement = at least 26 credits Distinguished Endorsement: Business and Industry Public Service STEM Arts and Humanities Multidisciplinary Studies	(Number in order of goals) Two Year College Four Year College Technical Training Employment Military	English I English II Algebra I US History Biology

Review course descriptions and prerequisites in the LTHS Course Catalog (<u>https://bit.ly/lthscatalog</u>)

8th Grade	9th Grade	10th Grade	11th Grade	12th Grade
	English I	English II	English III	English IV
	Math	Math	Math	Math
	Biology	Chemistry	Physics/3rd Science	4th Science
	World Geography	World History	US History	US Gov't / Economics
	LOTE	LOTE	Elective	Elective
	PE	Fine Art	Elective	Elective
	Elective	Elective	Elective	Elective
	Elective	Elective	Elective	Elective

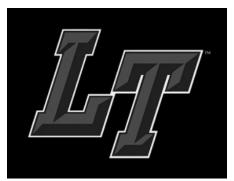
Notes: 26 total credits required. Student must take 4 years of English, Math, Science, and Social Studies,* plus 2 years minimum of the same LOTE (Language Other Than English), 1 credit of PE/Athletics, 1 credit of Fine Arts, and 6 credits of electives. Additional credits can be earned by a student's choice of courses.

*3 social studies are required (WGeo or WHist, USHist, USGov't/Econ); all 4 are recommended in LTISD.

Student Signature: ______ Parent / Guardian Signature: _____

Counselor Signature: _____ Date: _____

NOTES



LAKE TRAVIS

INDEPENDENT SCHOOL DISTRICT

Paul Norton

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Public Notification of Nondiscrimination in Career and Technical Education Programs https://www.ltisdschools.org/domain/767