

# TWC/LMCI Education Specialists

Here to Help You

# Meet the Specialists

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- ▶ **Lorena Knight (Lori)**

- ▶ Has been with TWC since August 2014
- ▶ Previously worked as an Educator, Academic Advisor, and Student Advocate in secondary and post-secondary settings for 8+ years

- ▶ **Karla Jasen**

- ▶ Has been with TWC since January 2016
- ▶ Was a MS and HS Educator for 11 years

- ▶ **Our Newest Addition**



# Who We Serve

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- ▶ Students and Parents
- ▶ Teachers
- ▶ Counselors
- ▶ CTE Administrators and Faculty
- ▶ School Administrators
- ▶ ESC Region Staff



# Services We Provide

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## What We DO

- ▶ **Presentations**
  - ▶ HB 5 Focused
  - ▶ CTE Focused
  - ▶ Workforce Focused
- ▶ **LMI for practical use**
  - ▶ Promote data-driven decision making
- ▶ **Career ...**
  - ▶ Fairs, expos, and days
  - ▶ Selfie booth

## What We CREATE

- ▶ **Educational materials**
- ▶ **Webinars**
- ▶ **Video Tutorials**
- ▶ **Curriculum Guides**
- ▶ **Materials for adult learners**
  - ▶ ESL focus



# How We Serve Students & Parents

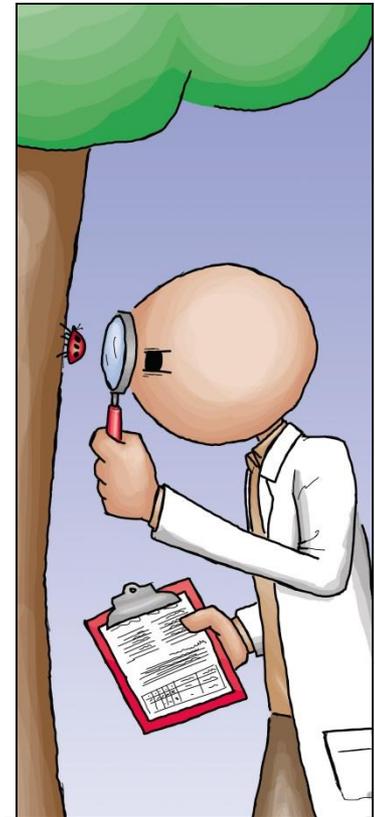
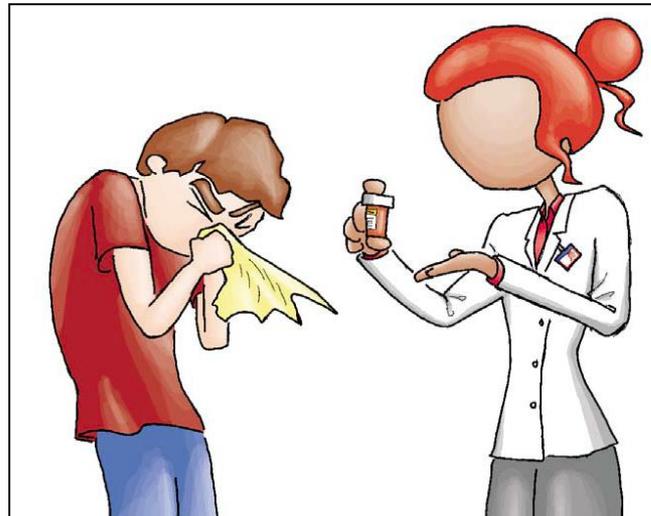
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- ▶ **LMCI Resource Creation and Updates**
- ▶ **Classroom presentations/ General Assemblies**
  - ▶ Foundation High School Program and Endorsements
  - ▶ Exploring careers
  - ▶ Understanding and using labor market data
  - ▶ Learning about workforce realities, including
    - ▶ -what employers want;
    - ▶ -employability (soft) skills;
    - ▶ -why doing what you like is important
  - ▶ Exploring post-secondary education or training opportunities
- ▶ **LMCI Resource Showcase and Demo**
  - ▶ Live view or hands-on



# More Help with Students & Parents

- ▶ Career Day Events
- ▶ Career Fairs & Expos
  - ▶ Selfie Booth
- ▶ College Night Events



# How We Serve Teachers & Counselors

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- ▶ LMCI Resource Creation and Updates
- ▶ Resource showcase and demos
- ▶ How to collect region-specific LMI data
  - ▶ How to apply data to counseling sessions
  - ▶ How to apply data to lesson plans/ curriculum
- ▶ Webinars on tools and resources
- ▶ Understanding the ESC & WDA crosswalk
- ▶ How to connect with local Workforce Solutions staff



# How We Serve CTE and School Administrators

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- ▶ Resource showcase and demos
- ▶ How to collect region-specific LMI data
  - ▶ How to apply data to high-demand jobs and growing industries
  - ▶ How to apply data to programmatic decisions
    - ▶ What to offer
    - ▶ Who to partner with (Industry, employer, workforce, and higher education partners)
    - ▶ Marketable skill attainment for students
- ▶ Understanding the ESC & WDA crosswalk
- ▶ How to connect with local Workforce Solutions staff



# How Many Have We Served?

(9-24/2014-02/29/2016)

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- ▶ **Students**
  - ▶ 23,230
- ▶ **Teachers/ Counselors/ Administration**
  - ▶ 3,943
- ▶ **Regions**
  - ▶ 19 out of 20
- ▶ **ISDs**
  - ▶ 235
- ▶ **Schools**
  - ▶ 75 specific
  - ▶ Numerous at joint career fairs and expos



# Who We Partner With

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- ▶ Texas Education Agency (TEA)
- ▶ Texas Higher Education Coordinating Board (THECB)
- ▶ Achieve Texas
- ▶ Educate Texas
- ▶ Texas Education Grantmakers Advocacy Consortium (TEGAC)
- ▶ Federal Reserve Bank of Dallas
- ▶ Texas A&M University's TRAIN PD/TCALL Team
- ▶ UT Counselor Academy Initiative Department
- ▶ ESC, CTE and Counselor Specialists



# Who We Hope to Partner With More

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- ▶ ESC-Level Personnel
- ▶ Local Workforce Solutions Offices
- ▶ WDA Boards
- ▶ TWC's department of Adult Education & Literacy
  - ▶ And their partners/ grantees

**Tell us what you need  
or want from the LMCI!**



# What are Our Future Plans

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- ▶ **Expand Training Opportunities**
  - ▶ Virtual Training
  - ▶ Train-the-Trainer sessions
- ▶ **Revise and Expand some of the print publications we have**
- ▶ **Work with other LMCI partners to create and update online tools**
- ▶ **Work with partners to put together regional events that include:**
  - ▶ Workforce
  - ▶ Industry
  - ▶ Employers
  - ▶ Academics (K-12 & post-secondary faculty & staff)
  - ▶ Policy makers



# We Need Your Help to Do This

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- ▶ Tell us about your best practices!
- ▶ Tell us who we should be talking to.
- ▶ Tell us who we should be partnering with.
- ▶ Tell us what you want or need in your area.

**We want to do Our Part**

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# Latest & Greatest and Upcoming

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- ▶ Beyond High School
- ▶ FHSP Endorsement Bulletins
- ▶ Career Cards
- ▶ CARES Update
- ▶ [Why Study This??](#)
- ▶ Career Pathway Podcast Series



# Contact Information

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**Education Specialist**

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**Karla Jasen**

**Education Specialist**

TWC, Austin

512-936-3193

[karla.jasen@twc.state.tx.us](mailto:karla.jasen@twc.state.tx.us)



# What Questions do You Have?

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karla.jasen@twc.state.tx.us

512-463-4879  
512-936-3193

## Arts and Humanities

### *Explore Your Future with the Foundation High School Program*

Published by the Texas Workforce Commission  
101 E. 15<sup>th</sup> street, Room 0252  
Austin, TX 78778-0001  
January 2016

Figuring out what you want to do when you grow up is a challenge, but boy is it worth it! With the Foundation High school Program's endorsement options, you have the opportunity to explore classes and fields of study that interest you TODAY so you can find your dream job TOMORROW. In many of these courses, you will even get to experience what it's like to work in the jobs that interest you. Remember: YOU HAVE OPTIONS, probably more than you have ever considered. For example, you don't have to be a professional artist to work in the arts. You can become an Archivist, Curator, Museum Conservator, or a Graphic Designer. If you love to dance but sustain an injury, you can still immerse yourself in that professional field with a career as a Theatrical Makeup Artist, Producer or Director, Costume Attendant, or Choreographer. So go exploring! Research your endorsement and career interest options before deciding which paths to pursue. The decisions you make about your education today will affect how well you enjoy your job in the future, how much money you earn, your future lifestyle, and so much more. So think it through, plan your future, and have fun!

## WHAT IS THE FOUNDATION HIGH SCHOOL PROGRAM??

The Foundation High School Program is a detailed plan of 22 credits that you and all your classmates will have to earn in order to graduate from high school. See page 4 for details. An endorsement is something you can add to your high school diploma to show your knowledge and/or skills gained in one of five broad subject matter areas: STEM, Arts and Humanities, Business and Industry, Public Services, and Multidisciplinary Studies. To get an endorsement, you must complete a logical sequence of specific courses approved by your district.

If you have questions about which endorsement would be best for you, talk to your school Counselor!

## PHOTOGRAPHER

Can you imagine yourself here?

Jobs projected in Texas by 2022: 8,680

You will need: Education level varies, but long-term on-the-job training is required by all

Typical starting pay is: \$19,208 a year

Typical overall pay is: \$33,398 a year

Turnover: Very Low

## Page 2

## MULTIMEDIA ARTIST

How about imagining yourself here?

Jobs projected in Texas by 2022: 4,640

You will need: a Bachelor's degree

Typical starting pay is: \$33,102 a year

Typical overall pay is: \$56,988 a year

Turnover: Low

So ... you think you might want to select the Arts and Humanities Foundation High School Program endorsement option? Awesome! Browse through some of the data for job titles found under the Arts and Humanities endorsement in this booklet to help you decide if this is the right educational and career path for you. For more information on jobs in this career field, you can:

1. Call our 24-hour Hotline at 1-800-822-PLAN (7526)
2. Go to the Texas CARES website and search the World of Work at [www.TEXASCARESONLINE.com](http://www.TEXASCARESONLINE.com)
3. Visit the LMCI website to see what available products may best serve your needs:  
[www.LMCI.STATE.TX.US](http://www.LMCI.STATE.TX.US)

We hope that by learning all you can about potential careers in the fields that interest you, you will be empowered to find a career that you love, and that also pays for you to live the way you want once you are living on your own. So enjoy this booklet, explore some options, and don't hesitate to talk to your parents, family, friends, teachers, counselors, and us at the Texas Workforce Commission if you have questions about your career goals.

### **Arts and Humanities occupations can be found in all of the following Achieve Texas career clusters.**

Architecture and Construction  
Arts, A/V Technology, and Communications  
Education and Training  
Finance  
Government and Public Administration  
Hospitality and Tourism  
Human Services  
Manufacturing  
Marketing  
Science, Technology, Engineering, and Mathematics

## **Page 3**

### **Sample Arts and Humanities Occupations by Emphasis**

#### *Arts, A/V Technology, and Communications Cluster*

Actors  
Animators  
Art, Drama, and Music Teachers, Postsecondary  
Art Directors  
Audio and Video Equipment Technicians  
Broadcast News Analysts  
Broadcast Technicians  
Camera and Photographic Equipment Repairers  
Camera Operators  
Choreographers  
Commercial and Industrial Designers  
Communications Teachers, Postsecondary

Craft Artists  
Dancers  
Desktop Publishers  
Editors  
English, Language, & Literature Teachers, Postsecondary  
Entertainers & Performers  
Film & Video Editors  
Fine Artists  
Foreign Language, & Literature Teachers, Postsecondary  
Graphic Designers  
Makeup Artists, Cinematic  
Multimedia Artists  
Music Directors and Composers  
Photographers  
Prepress Technicians  
Producers and Directors  
Public Address Announcers  
Radio & TV Announcers  
Reporters & Correspondents  
Sound Engineering Technicians

### *Architecture and Construction and Education and Training Clusters*

Archivists  
Curators  
Interior Designers

### *Finance, Government and Public Administration, and Marketing Clusters*

Business Manager/Agents of Artists, Performers, & Athletes  
Fashion Designers  
Floral Designers  
History Teachers, Postsecondary  
Proofreaders & Copy Markers

### *Manufacturing, Human Services, and STEM Clusters*

Anthropologists & Archeologists  
Archeologists  
Clergy  
Designers, all other  
Jewelers  
Musical Instrument Tuners  
Painting, Coating, & Decorating Workers  
Philosophy & Religion Teachers, Postsecondary  
Precious Stone Workers  
Religious Workers  
Tailors and Dressmakers

Technical Writers

### *Hospitality and Tourism and Public Service Clusters*

Area, Ethnic, & Cultural Studies Teachers, Postsecondary

Costume Attendants

Entertainment Attendants

Gaming & Sports Book Writers

Interpreters and Translators

Museum Conservators

Museum Technicians

### **Keep in Mind**

The career titles listed above are just a fraction of the possible occupation opportunities available within this endorsement area, so be sure to visit TWC's AutoCoder website to find other job titles that may interest you: <http://autocoder.lmci.state.tx.us>.

- Just enter a job title or a description in the appropriate search box, and you will get a list of the most common title matches.
- Click on the title that best matches the job that interests you, and a catalog of other, closely-related (or interchangeable) job titles will appear.

## **Page 4**

### **Your FOUNDATION Graduation Requirements**

Here's what every Texas student needs to graduate under the Foundation High School Program. Remember that your school district has the authority to establish requirements in addition to the state minimums for graduation. Check with your school Counselor for more information.

Standard credits needed for the Foundation high School program:

#### **4- English**

- English I, II, and III
- Advanced English Course

#### **3- Mathematics**

- Algebra I
- Geometry
- Advanced Math Course

#### **3-Science**

- Biology
- IPC or advanced science course
- Advanced science course

#### **3-Social Studies**

- U.S. History
- U.S. Government (1/2 credit)
- Economics (1/2 credit)
- World History or Geography

### **1-Physical Education**

### **2-Languages other than English**

- Two credits in the same language
- Two credits from Computers Science I, II, and III

### **1-Fine Arts**

### **5-Electives**

- Classes available for electives will be based upon the endorsement options selected by the student.

### **0-Speech**

- Demonstrated proficiency

Total of 22 Credits

## **Additional Credits needed for the Distinguished Level of Achievement Diploma**

### **1-Additional Mathematics**

- All Foundation Program requirements, plus Algebra II

### **1-Additional Science**

- All Foundation Program requirements, plus an advanced science class based on endorsement selection

### **2-Additional Electives**

- All Foundation Program requirements, plus two additional elective classes based on endorsement selection

Total credits of 26

## **Performance Acknowledgments**

Students can earn one or more Performance Acknowledgments, in addition to any graduation program they follow, for any of the areas listed below. (Please talk to your school Counselor for specific guidelines for each category.)

- Dual Credit course
- Advanced Placement or International Baccalaureate exam performance.
- Bilingualism and biliteracy
- Earning a nationally or internationally recognized business or industry certification or license
- PSAT, ACT-PLAN, SAT, or ACT score

## Page 5

### Your Arts and Humanities Endorsement Options

Students interested in earning the Arts & Humanities endorsement have several options. You will need to successfully complete Algebra II, Chemistry, and Physics, and choose one of six options to earn your remaining Arts & Humanities endorsement credits. You can:

1. Complete five total Social Studies courses
2. Complete four consecutive levels of the same language in a language other than English (LOTE), for example: French I, II, III, and IV
3. Complete two levels of the same language in a LOTE and two levels of a different language that is another LOTE, for example:
  - a. Spanish I and II
  - b. Sign Language I and II
4. Complete four levels of American Sign Language
5. Complete four consecutive levels of classes from one or two fine art subjects, for example:
  - a. Drawing I, Drawing II, Drawing III, and Drawing IV or
  - b. Painting I and Painting II as well as
  - c. Ceramics I and Ceramics II
6. Complete four consecutive levels of classes from one or two fine art subjects, such as:
  - a. English IV
  - b. Independent Study in English
  - c. Literary Genres
  - d. Creative Writing
  - e. Research and Technical Writing
  - f. Humanities
  - g. AP English Literature and Composition
  - h. IB Language Studies A1 Higher Level
  - i. Communication Application

### Producers and Directors

Can you imagine yourself in this job?

Jobs projected in Texas by 2022: 5,000  
You will need: a Bachelor's degree plus work experience  
Typical starting pay is: \$27,166 a year  
Typical overall pay is: \$61,102 a year  
Turnover: Average

## Page 6

**Can you imagine yourself with any of these jobs?**

### **MUSICIANS AND SINGERS**

Jobs projected in Texas by 2022: 13,010  
You will need: Long-term training, sometimes a degree  
Typical starting pay is: \$10.25 an hour  
Typical overall pay is: \$27.74 an hour  
Turnover: Average

### **INTERIOR DESIGNER**

Jobs projected in Texas by 2022: 5,850  
You will need: an Associate degree or higher  
Typical starting pay is: \$36,247 a year  
Typical overall pay is: \$62,973 a year  
Turnover: Low

### **MUSIC DIRECTOR/COMPOSER**

Jobs projected in Texas by 2022: 5,260  
You will need: Bachelor's degree plus work experience  
Typical starting pay is: \$36,819  
Typical overall pay is: \$56,252  
Turnover: Low

## Page 7

### **The Real Deal**

*Using Labor Market Statistics to Filter through Career Options*

It is important to think about how much money you'll earn in any given occupation. But you should consider many other labor market statistics to help you make informed choices. Check out the information and numbers below for a few jobs in the Arts and Humanities fields to see other important statistics you can discover on the Texas CARES website. Use this information to help you determine what's important to you in a career.

## Graphic Designers

You will: Design or create graphics to meet specific commercial or promotional needs, such as packaging, displays, or logos. May use a variety of mediums to achieve artistic or decorative effects.

- Employment is expected to grow about as fast as the average, with many new jobs associated with interactive media.
- Jobseekers are expected to face keen competition; individuals with Web site design and animation experience will have the best opportunities.

Projected state employment for 2022: 16,950

Education needed: Bachelor Degree or higher

Annual Wage: \$45,535

Turnover: Average

## Interpreters and Translators

You will: Interpret oral or sign language, or translate written text from one language into another.

- About 26 percent of interpreters and translators are self-employed; many freelance and work in this occupation only sporadically.
- Need fluency in at least two languages.
- Employment is expected to grow much faster than average.
- Job prospects vary by specialty and language.

Projected state employment for 2022: 6,720

Education needed: Bachelor Degree or higher

Annual Wage: \$46,529

Turnover: Very Low

## Technical Writers

You will: Write technical materials, such as equipment manuals, appendices, or operating and maintenance instructions. May also assist in layout work.

- Most jobs in this occupation require a college degree—preferably in communications, journalism, or English.
- Job prospects for most technical writing jobs are expected to be good, particularly for those with Web or multimedia experience.
- Excellent communications skills, curiosity, and attention to detail are highly desired traits.

Projected state employment for 2022: 4,520

Education needed: Bachelor Degree

Annual Wage: \$70,009

Turnover: Low

## Page 8

WANT INFORMATION ON MORE JOBS?

Check out [www.TEXASCARESONLINE.com](http://www.TEXASCARESONLINE.com) to learn about hundreds more ARTS & HUMANITIES careers!

EXPLORE YOUR FUTURE!

TEXAS WORKFORCE COMMISSION  
Labor Market and Career Information  
101 E. 15th St, Room 0252  
Austin, TX 78778-0001  
866-938-4444 toll free  
Fax: 512-936-3208  
www.texasrealitycheck.com  
www.texasworkforce.org  
email: [lmci@twc.state.tx.us](mailto:lmci@twc.state.tx.us)

Equal Opportunity Employer/Program. Auxiliary aids and services are available upon request to individuals with disabilities. Relay Texas: 800-735-2989 (TTY) and 711 (Voice).

Can you imagine yourself in this job?

## **REPORTERS and CORRESPONDENTS**

Jobs projected in Texas by 2022: 2,540  
You will need: a Bachelor's degree plus work experience  
Typical starting pay is: \$23,153 a year  
Typical overall pay is: \$43,257 a year  
Turnover: Average

## **Business and Industry**

### *Explore Your Future with the Foundation High School Program*

Published by the Texas Workforce Commission

101 E. 15<sup>th</sup> street, Room 0252

Austin, TX 78778-0001

January 2016

Figuring out what you want to do when you grow up is a challenge, but boy is it worth it! With the Foundation High School Program's endorsement options, you have the opportunity to explore classes and fields of study that interest you TODAY so you can find your dream job TOMORROW. In many of these courses, you will even get to experience what it's like to work in the jobs that interest you.

Remember: YOU HAVE OPTIONS, probably more than you have ever considered. If you want to work for someone else, or help operate a large corporation, you can become a Budget Analyst, or a Human Resources Manager, and someday maybe even a Chief Executive Officer. If you want to run your own businesses, you might pursue a career as a Real Estate Agent, Private Chef or Baker, or a Landscaping Architect, for example.

So go exploring! Research your endorsement and career interest options before deciding which paths to pursue. The decisions you make about your education today will affect how well you enjoy your job in the future, how much money you earn, your future lifestyle, and so much more. So think it through, plan your future, and have fun!

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If you have questions about which endorsement would be best for you, talk to your school Counselor!

## **Construction Manager**

Can you imagine yourself with this job?

Jobs projected in Texas by 2022: 74,370

You will need: a Bachelor's degree

Typical starting pay is: \$51,454 a year

Typical overall pay is: \$86,187 a year

Turnover: Very Low

## **Page 2**

How about imagining yourself with this job?

## **Financial Manager**

Jobs projected in Texas by 2022: 36,030

You will need: a Bachelor's Degree or higher  
Typical starting pay is: \$75,490 a year  
Typical overall pay is: \$134,587 a year  
Turnover: Very Low

So ... you think you might want to select the Business and Industry Foundation High School Program endorsement option? Awesome! Browse through some of the data for job titles found under the Business & Industry endorsement in this booklet to help you decide if this is the right educational and career path for you. For more information on jobs in this career field, you can:

1. Call our 24-hour Hotline at 1-800-822-PLAN (7526)
2. Go to the Texas CARES website and search the World of Work at [www.TEXASCARESONLINE.com](http://www.TEXASCARESONLINE.com)
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We hope that by learning all you can about potential careers in the fields that interest you, you will be empowered to find a career that you love, and that also pays for you to live the way you want once you are living on your own. So enjoy this booklet, explore some options, and don't hesitate to talk to your parents, family, friends, teachers, counselors, and us at the Texas Workforce Commission if you have questions about your career goals.

### Business and Industry occupations can be found in all of the following Achieve Texas career clusters.

Agriculture, Food, and Natural Resources  
Architecture and Construction  
Arts, A/V Technology, and Communications  
Business Management and Administration  
Finance  
Government and Public Administration  
Hospitality and Tourism  
Information Technology  
Manufacturing  
Marketing  
Transportation, Distribution, and Logistics

## Page 3

### Sample Business and Industry Occupations by Emphasis *Architecture and Construction Career Cluster*

Architects  
Brickmasons  
Carpenters  
Civil Engineers  
Construction and Maintenance Painters  
Construction Managers  
Drafters

Electricians  
Extractions Workers  
Glaziers  
Interior Designers  
Landscape Architects  
Pipelayers  
Riggers  
Structural Iron & Steel Workers

### *Agriculture, Food and Natural Resources Career Clusters*

Agricultural Inspectors  
Agricultural Science Teachers  
Animal Breeders  
Animal Scientists  
Cartographers  
Derrick Operators  
Environmental Engineering Technicians  
Fish & Game Wardens  
Log Graders and Scalers  
Mining Machine Operators  
Natural Science Managers  
Pest Control Workers  
Petroleum Technicians  
Pump Operators  
Soil & Plant Scientists

### *Business Management and Administration and Finance Career Clusters*

Accountants and Auditors  
Actuaries  
Bill and Account Collectors  
Bookkeeping Clerks  
Brokerage Clerks  
Business Teachers  
Chief Executives  
Claims Adjusters  
Executive Assistants  
Financial Analyst  
Human Resources Managers  
Insurance Underwriters  
Labor Relations Specialists  
Medical and Health Service Managers  
Payroll and Timekeeping Clerks

### *Hospitality and Tourism and Information Technology Career Clusters*

Bakers  
Cashiers  
Chefs and Head Cooks  
Computer Network Architects  
Computer Programmers  
Concierges  
Database Administrators  
Event Planners  
Food Service Managers  
Hotel Desk Clerks  
Museum Technicians  
Parking Lot Attendants  
Set & Exhibit Designers  
Tour Guides and Escorts  
Web Developers

### *Manufacturing and Transportation, Distribution, and Logistics Career Clusters*

Air Traffic Controllers  
Aircraft Mechanics  
Auto Body Repairers  
Avionics Technicians  
Boilermakers  
Bus Drivers  
Cabinetmakers  
Chemical Plant Operators  
Dispatchers  
Etchers & Engravers  
Fiberglass Laminators  
Machinists  
Model Makers, Plastic/Metal  
Semiconductor Processors  
Welders

### **Keep in Mind**

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- Just enter a job title or a description in the appropriate search box, and you will get a list of the most common title matches.
- Click on the title that best matches the job that interests you, and a catalog of other, closely-related (or interchangeable) job titles will appear.

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### Your FOUNDATION Graduation Requirements

Here's what every Texas student needs to graduate under the Foundation High School Program. Remember that your school district has the authority to establish requirements in addition to the state minimums for graduation. Check with your school Counselor for more information.

Standard credits needed for the Foundation high School program:

#### 4- English

- English I, II, and III
- Advanced English Course

#### 3- Mathematics

- Algebra I
- Geometry
- Advanced Math Course

#### 3-Science

- Biology
- IPC or advanced science course
- Advanced science course

#### 3-Social Studies

- U.S. History
- U.S. Government (1/2 credit)
- Economics (1/2 credit)
- World History or Geography

#### 1-Physical Education

#### 2-Languages other than English

- Two credits in the same language
- Two credits from Computers Science I, II, and III

#### 1-Fine Arts

#### 5-Electives

- Classes available for electives will be based upon the endorsement options selected by the student.

#### 0-Speech

- Demonstrated proficiency

Total of 22 Credits

## Additional Credits needed for the Distinguished Level of Achievement Diploma

### 1-Additional Mathematics

- All Foundation Program requirements, plus Algebra II

### 1-Additional Science

- All Foundation Program requirements, plus an advanced science class based on endorsement selection

### 2-Additional Electives

- All Foundation Program requirements, plus two additional elective classes based on endorsement selection

Total credits of 26

## Performance Acknowledgments

Students can earn one or more Performance Acknowledgments, in addition to any graduation program they follow, for any of the areas listed below. (Please talk to your school Counselor for specific guidelines for each category.)

- Dual Credit course
- Advanced Placement or International Baccalaureate exam performance.
- Bilingualism and biliteracy
- Earning a nationally or internationally recognized business or industry certification or license
- PSAT, ACT-PLAN, SAT, or ACT score

## Page 5

### Your Business and Industry Endorsement Options

Students interested in earning the Business & Industry endorsement have several options. You will need to successfully complete Algebra II, Chemistry, and Physics, and choose one of four options to earn your remaining Business & Industry endorsement credits. You can:

1. Complete consecutive levels [For example: Principles of Business, Marketing and Finance followed by Business Management or Culinary Arts I followed by Culinary Arts II] of four or more CTE (Career Technical Education) courses with the first two of them being from the same career cluster.
  - a. The third CTE credit must be from an advanced course
  - b. The fourth CTE credit must come from a class in one of the following career clusters:
    - Agriculture, Food, & Natural Resources

- Architecture & Construction
  - Arts, Audio/Video Technology, & Communications
  - Business Management & Administration
  - Transportation, Distribution, & Logistics
  - Marketing
  - Information Technology
  - Manufacturing
  - Hospitality & Tourism
  - Finance
2. Complete four English elective credits by selecting three levels from one of the following areas:
    - a. Advanced Broadcast Journalism
    - b. Advanced Journalism: Newspaper
    - c. Advanced Journalism: Yearbook
    - d. Public Speaking
    - e. Debate
  3. Complete four technology application courses from the following options:
    - a. Digital Design and Media Production
    - b. Digital Art and Animation
    - c. 3-D Modeling and Animation
    - d. Digital Communications in the 21st Century
    - e. Digital Video and Audio Design
    - f. Web Communications
    - g. Web Design
    - h. Web Game Development
    - i. Independent Study in Evolving/Emerging Technologies
  4. Complete four classes in consecutive levels from options 1 - 3.

Can you imagine yourself with this job?

## Plumber

Jobs projected in Texas by 2022: 40,860

You will need: On-the-job training and/or formal classroom instruction

Typical starting pay is: \$28,451 a year

Typical overall pay is: \$44,691 a year

Turnover: Very Low

## Page 6

### Can you imagine yourself with any of these jobs?

#### CHIEF EXECUTIVES

Jobs projected in Texas by 2022: 11,660

You will need: a Bachelor's degree or higher, plus experience

Typical starting pay is: \$91,916 a year

Typical overall pay is: \$189,976 a year

Turnover: Low

#### COSMETOLOGIST

Jobs projected in Texas by 2022: 41,770

You will need: Post-secondary vocational training

Typical starting pay is: \$16,813 a year

Typical overall pay is: \$27,769 a year

Turnover: Low

#### AIR TRAFFIC CONTROLLER

Jobs projected in Texas by 2022: 2,780

You will need: Long term on-the-job-training, including formal and informal apprenticeships

Typical starting pay is: \$82,542 a year

Typical overall pay is: \$128,159 a year

Turnover: Average

## Page 7

### The Real Deal

#### *Using Labor Market Statistics to Filter through Career Options*

It is important to think about how much money you'll earn in any given occupation. But you should consider many other labor market statistics to help you make informed choices.

Check out the information and numbers below for a few jobs in the Business and Industry fields to see other important statistics you can discover on the Texas CARES website. Use this information to help you determine what's important to you in a career.

#### Automotive Service Technicians and Mechanics

You will: Diagnose, adjust, repair, or overhaul automotive vehicles.

- Formal automotive technician training is the best preparation.
- Automotive service technicians and mechanics must continually adapt to changing technology and repair techniques.

Projected state employment for 2022: 60,680

Education needed: Post-Secondary Training plus Credentials

Annual Wage: \$39,217

Turnover: Low

## Administrative Assistants

You will: Perform routine clerical and administrative functions such as drafting correspondence, scheduling appointments, organizing and maintaining paper and electronic files, or providing information to callers.

- Opportunities should be best for applicants with extensive knowledge of computer software applications.

Projected state employment for 2022: 230,220

Education needed: High School Diploma plus training

Annual Wage: \$31,816

Turnover: Very Low

## Pastry Chefs/ Bakers

You will: Mix and bake ingredients to produce breads, rolls, cookies, cakes, pies, pastries, or other baked goods.

- Most workers in manual food processing jobs require little or no training prior to being hired. Excellent communications skills, curiosity, and attention to detail are highly desired traits.
- Highly skilled bakers should be in demand.

Projected state employment for 2022: 14,210

Education needed: Long-Term on the job training some in the job have Associate Degrees

Annual Wage: \$22,661

Turnover: Low

## Page 8

WANT INFORMATION ON MORE JOBS?

Check out [www.TEXASCARESONLINE.com](http://www.TEXASCARESONLINE.com) to learn about hundreds more Business and Industry careers!

EXPLORE YOUR FUTURE!

TEXAS WORKFORCE COMMISSION  
Labor Market and Career Information  
101 E. 15th St, Room 0252  
Austin, TX 78778-0001  
866-938-4444 toll free  
Fax: 512-936-3208  
[www.texasrealitycheck.com](http://www.texasrealitycheck.com)  
[www.texasworkforce.org](http://www.texasworkforce.org)  
email: [lmci@twc.state.tx.us](mailto:lmci@twc.state.tx.us)

Equal Opportunity Employer/Program. Auxiliary aids and services are available upon request to individuals with disabilities. Relay Texas: 800-735-2989 (TTY) and 711 (Voice).

Can you imagine yourself in this job?

## **Welder**

Jobs projected in Texas by 2022: 57,610

You will need: Post-Secondary Vocational Training

Typical starting pay is: \$26,700 a year

Typical overall pay is: \$40,895 a year

Turnover: Low

## Wage Conversions

Conversions based on a 40-hour work week, 2,080 hours per year.

Per Hour	Per Week	Per Month	Per Year
\$7.25	\$290	\$1,257	\$15,080
\$8.00	\$320	\$1,387	\$16,640
\$9.00	\$360	\$1,560	\$18,720
\$10.00	\$400	\$1,733	\$20,800
\$11.00	\$440	\$1,907	\$22,880
\$12.00	\$480	\$2,080	\$24,960
\$13.00	\$520	\$2,253	\$27,040
\$14.00	\$560	\$2,426	\$29,120
\$15.00	\$600	\$2,600	\$31,200
\$16.00	\$640	\$2,773	\$33,280
\$17.00	\$680	\$2,946	\$35,360
\$18.00	\$720	\$3,120	\$37,440
\$19.00	\$760	\$3,293	\$39,520
\$20.00	\$800	\$3,466	\$41,600
\$21.00	\$840	\$3,640	\$43,680
\$22.00	\$880	\$3,813	\$45,760
\$23.00	\$920	\$3,986	\$47,840
\$24.00	\$960	\$4,160	\$49,920
\$25.00	\$1,000	\$4,333	\$52,000
\$26.00	\$1,040	\$4,506	\$54,080
\$27.00	\$1,080	\$4,680	\$56,160
\$28.00	\$1,120	\$4,853	\$58,240
\$29.00	\$1,160	\$5,026	\$60,320
\$30.00	\$1,200	\$5,200	\$62,400

To find a local Workforce Solutions office near you, go to [www.texasworkforce.org](http://www.texasworkforce.org) and click "Find Locations" at the very top.

## Social Media

1. Use social media to follow, friend, and like other professionals.
2. Represent yourself honestly on social media.
3. Emphasize your unique strengths, knowledge, skills, and abilities in your profile.
4. Participate in groups to learn about different career opportunities.
5. Follow and like companies for which you would like to work.
6. Always represent yourself professionally in comments and photos. Assume anyone can see anything you post, regardless of privacy settings.
7. Create a professional email address for employers to contact you.
8. Provide a professional voice greeting for employers to receive when they leave you a voicemail.
9. Search for yourself online to see what others can learn about you.
10. Conduct yourself professionally on social media even after you have been hired.



Texas Workforce Commission  
 Labor Market & Career Information Department  
 101 East 15th Street, Room 0252  
 Austin, Texas 78778-0001  
 Phone: 512-936-3200  
 Fax: 512-936-3204  
[www.tracer2.com](http://www.tracer2.com)  
[www.texasworkforce.org/lmci](http://www.texasworkforce.org/lmci)  
 1-866-938-4444 (toll free)

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# TOP 10 CAREER TIPS

for a  
Successful Future



- How To Search for a Job
- Job Interviewing
- How To Succeed At Work
- Social Media
- Wage Conversions

## How to Search for a Job

### 1. Consider your interests

Identify activities you like to do and the challenges they offer.

### 2. Assess your skills

Evaluate school, volunteer, work or leisure experiences.

### 3. Research occupations

Develop a list of possible careers based on your particular combination of skills and interests.

### 4. Devote time to your job search

Expect to spend several hours a day looking for a job.

### 5. Be patient finding a job

A thorough job search is hard work. The more money you expect to earn, the longer it will likely take to find a job.

### 6. Involve friends and family

They are a great source for support, assistance and encouragement.

### 7. Conduct field interviews

Meet with people in the field you are interested in pursuing.

### 8. Use the Texas Workforce Commission

- Visit your local Workforce Solutions office.
- Take advantage of training seminars.
- Prepare a résumé and cover letter.
- Consult [www.WorkInTexas.com](http://www.WorkInTexas.com), classified ads, and other nationwide job search websites.

### 9. Organize your job search and resources

Record the places you've applied to, people you've talked with, and the responses you have received.

### 10. Rejection is part of the process

Stay positive! Your efforts will pay off as you get closer to landing the right job for you.

## Job Interviewing

### 1. Bring a copy of your résumé

### 2. Gather information about the company

### 3. Bring transcripts and references

### 4. Bring a pen and some paper

### 5. Dress for success:

- Conventional two-piece business suit (solid dark blue or gray is best)
- Conventional long sleeve shirt/blouse (white or pastel is best)
- Clean, polished, conventional shoes
- Well-groomed hairstyle
- Clean, trimmed fingernails
- Minimal cologne or perfume
- Empty pockets—no large objects or loose coins
- Light briefcase or portfolio case
- No gum, candy or cigarettes

### 6. Arrive 10 minutes early

### 7. Get a good night's sleep before an interview

### 8. Eat a small snack before an interview to maintain your energy

Make sure you brush your teeth and freshen your breath afterward.

### 9. Go alone

Do not bring friends or family to an interview.

### 10. Use a firm handshake

## How to Succeed At Work

### 1. Attendance and punctuality

- Be on time and ready to start.
- Call if you cannot keep your appointments.
- Be reasonable and responsible in using your paid time off. Abide by your employer's policies.

### 2. Work ethic

Time is money. When at work, WORK.

### 3. Meet deadlines

Make sure all work is turned in on time.

### 4. Demonstrate effective oral communication

Speak clearly. Do not use slang.

### 5. Demonstrate self-control

Stay calm under pressure.

### 6. Attention to details/quality

Follow instructions, proof all work, check for mistakes.

### 7. Work well independently

Demonstrate your ability to work with little or no supervision.

### 8. Adapt well to change

Be willing to accept new assignments.

### 9. Respond well to constructive criticism

Take criticism positively, not negatively.

### 10. Team work

Collaborate and get along with co-workers.

**GOOD NEWS!** Many **FINANCIAL AID** resources can help you pay the rising costs of education and training after high school, and the brochure you now hold in your hands will tell you what they are and how to tap them.

First, let's cover some basic financial aid terms you will need to know.

**Educational expenses** • Money a person has to pay either now or in the future to receive higher education or professional training. Examples: tuition, room and board, meals, student fees, books, supplies, transportation, toiletries, clothing, and other necessities.

**FAFSA** • A Free Application for Federal Student Aid you must complete each new year you attend college. Requires your family's financial and tax information to determine your level of financial aid eligibility (or need).

**Grants and Scholarships** • Both are financial aid provided by state, federal, private, school, or corporate entities. Applicants usually must prove financial need to earn grants, while scholarships are available for both merit- and need-based applicants (see below). Neither grants nor scholarships are paid back to investors.

**Loan Repayment Program/Loan Forgiveness** • Assists students in repaying loans or completing some type of public service resulting in forgiveness of all or part of a student's loan debt amount. Visit [www.collegeforalltexas.com](http://www.collegeforalltexas.com) to learn more.

**Merit-Based** • Financial aid given to students who have performed a specific task, maintained a certain GPA, or who possess specific talents. Often provided as scholarships.

**Need-Based** • Financial aid provided to students whose FAFSAs show annual educational expenses exceed what they and their families can fund on their own. Examples: grants, scholarships, loans, and work-study opportunities.

**Student Loans** • Federal funds provided to students which must be paid back in full.

Payments must begin usually six months after a student graduates or leaves higher education.

**Work-Study Jobs** • Federally funded work programs on college campuses available to students whose FAFSAs prove they need financial aid. Students must be enrolled at least part-time and work on the campus where they attend classes.

### How to Get Financial Aid

Before applying for financial aid, you must first fill out a FAFSA to determine how much need-based aid you can receive. As long as you are enrolled in higher education, complete the FAFSA as soon as possible after the first of January each year, once your and your parents' income tax forms are completed. The deadline to submit the FAFSA usually occurs in February.



Search scholarship pages of the colleges, universities, or career colleges you hope to attend, or call the financial aid office on campus, as it may have resources not listed in national, state, or regional databases. Also, this brochure contains links to several online resources where you can look up prospects.

You may be offered financial aid "packages" consisting of several different aid sources. For example, you could be offered three different scholarships, a grant, a work-study position, and student loans. Be sure to read what is offered before you accept so you understand your future financial obligations clearly.

Statistics show that over \$150 billion is awarded to students each year. Make sure you are one of them! It only takes a little research, organization, and follow-through to complete applications and requirements correctly and on time.

## **REMEMBER . . .** **STUDENT LOANS HAVE STAYING POWER!**

- Legally getting out of paying back student loans is rare, difficult and sometimes expensive. Even when exceptions are made, many only reduce the amount of loan debt rather than remove the debt completely.
- Even if you declare bankruptcy later in life, your student loan debt will not be absolved or removed from your credit score.
- If you are in default, it will be reflected in your credit score and credit history. You may have difficulty in obtaining loans to purchase cars or homes, finding a job, renewing any government or professional licenses, or joining the military.
- If you are in default on your student loan and you decide to return to school at a later date, you will not be eligible to receive any more federal financial aid (this includes loans, grants, or federal scholarships).
- If you default on paying your loans back, the government has the right to garner your wages, keep your federal and state tax refunds, or withhold your Social Security payments.

**RESEARCH ALL YOUR OPTIONS IN  
PAYING FOR YOUR EDUCATION AND  
MAKE THE DECISION THAT IS  
BEST FOR YOU.**

## Helpful Organizations and Websites:

### Financial Aid Resources

- Campus Explorer  
[www.campusexplorer.com/scholarships](http://www.campusexplorer.com/scholarships)
- College for all Texans  
[www.collegeforalltexas.com](http://www.collegeforalltexas.com)
- Every Chance Every Texan  
[www.everychanceeverytexan.org](http://www.everychanceeverytexan.org)
- FAFSA website  
<https://fafsa.ed.gov>
- Fastweb  
[www.fastweb.com](http://www.fastweb.com)
- Federal Pell Grants  
<http://thepell.com>
- Federal Supplemental Education Grant  
[www.fseog.com](http://www.fseog.com)
- FinAid  
[www.finaid.org](http://www.finaid.org)
- Merit Aid  
[www.meritaid.com](http://www.meritaid.com)
- The Scholarship Page  
[www.schoalrship-page.com](http://www.schoalrship-page.com)
- Student Scholarship Search  
[www.studentschoalrshipsearch.com](http://www.studentschoalrshipsearch.com)
- US Department of Education  
[www.ed.gov](http://www.ed.gov)

### Other Education/Training Funding Opportunities

- AmeriCorps  
[www.americorps.gov](http://www.americorps.gov)
- GI Bill  
[www.benefits.va.gov/gibill](http://www.benefits.va.gov/gibill) OR

Get information at [www.collegeforalltexas.com](http://www.collegeforalltexas.com)

Try all possible sources of financial aid. The more sources you explore, the greater your chance of success.

- ★ Apply early.
- ★ Meet deadlines.
- ★ Keep organized copies of all forms and correspondence.
- ★ Fill out forms accurately and completely.
- ★ Talk to the financial aid office at all the schools to which you are applying.
- ★ Check out ALL scholarships.



### Texas Workforce Commission

101 East 15th Street, Room 0252  
Austin, Texas 78778-0001  
Phone: 512-936-3200  
Fax: 512-936-3204

[www.texasworkforce.org/labormarket](http://www.texasworkforce.org/labormarket)  
Career Information Hotline: 800-822-7526



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## **Multi-Disciplinary**

### *Explore Your Future with the Foundation High School Program*

Published by the Texas Workforce Commission

101 E. 15<sup>th</sup> street, Room 0252

Austin, TX 78778-0001

January 2016

Figuring out what you want to do when you grow up is a challenge, but boy is it worth it! With the Foundation High School Program's endorsement options, you have the opportunity to explore classes and fields of study that interest you TODAY so you can find your dream job TOMORROW. In many of these courses, you will even get to experience what it's like to work in the jobs that interest you.

Remember: YOU HAVE OPTIONS, probably more than you have ever considered. With the Multi -Disciplinary endorsement you can explore more than one career or academic pathway, so your options remain more flexible. Many occupations require you to build knowledge from more than one endorsement. For example, Nurses are classified primarily under the Public Service endorsement, but also have a strong Science, Technology, Engineering and Math (STEM) component. Other multi-disciplinary occupations include Historians, Animal Scientists, Biomedical Engineers and more.

So go exploring! Research your endorsement and career interest options before deciding which paths to pursue. The decisions you make about your education today will affect how well you enjoy your job in the future, how much money you earn, your future lifestyle, and so much more. So think it through, plan your future, and have fun!

## **WHAT IS THE FOUNDATION HIGH SCHOOL PROGRAM??**

The Foundation High School Program is a detailed plan of 22 credits that you and all your classmates will have to earn in order to graduate from high school. See page 4 for details. An endorsement is something you can add to your high school diploma to show your knowledge and/or skills gained in one of five broad subject matter areas: STEM, Arts and Humanities, Business and Industry, Public Services, and Multidisciplinary Studies. To get an endorsement, you must complete a logical sequence of specific courses approved by your district.

If you have questions about which endorsement would be best for you, talk to your school Counselor!

Can you imagine yourself with this job?

### **Computer Programmer**

Jobs projected in Texas by 2022: 24,690

You will need: a Bachelor's degree plus work experience

Typical starting pay is: \$47,229 a year

Typical overall pay is: \$80,814 a year

Turnover: Low

## **Page 2**

How about imagining yourself with this job?

## Real Estate Appraiser

Jobs projected in Texas by 2022: 8,090

You will need: an Associate's Degree

Typical starting pay is: \$35,132 a year

Typical overall pay is: \$62,931 a year

Turnover: Very Low

So ... you think you might want to select the Multi-Disciplinary Foundation High School Program endorsement option? Awesome! Browse through some of the data for job titles found under the Business & Industry endorsement in this booklet to help you decide if this is the right educational and career path for you. For more information on jobs in this career field, you can:

1. Call our 24-hour Hotline at 1-800-822-PLAN (7526)
2. Go to the Texas CARES website and search the World of Work at [www.TEXASCARESONLINE.com](http://www.TEXASCARESONLINE.com)
3. Visit the LMCI website to see what available products may best serve your needs:  
[www.LMCI.STATE.TX.US](http://www.LMCI.STATE.TX.US)

We hope that by learning all you can about potential careers in the fields that interest you, you will be empowered to find a career that you love, and that also pays for you to live the way you want once you are living on your own. So enjoy this booklet, explore some options, and don't hesitate to talk to your parents, family, friends, teachers, counselors, and us at the Texas Workforce Commission if you have questions about your career goals.

## Multi-Disciplinary occupations can be found in all of the following Achieve Texas career clusters.

Agriculture, Food, and Natural Resources

Architecture and Construction

Arts, A/V Technology, and Communications

Business Management and Administration

Education and Training

Finance

Government and Public Administration

Health Science

Hospitality and Tourism

Human Services

Information Technology

Law, Public Safety, Corrections and Security

Manufacturing

Science, Technology, Engineering and Mathematics

Transportation, Distribution, and Logistics

## Page 3

### Sample Business and Industry Occupations

Accountants & Auditors  
Actors  
Aerospace Engineering & Operations Techs  
Agricultural & Food Science Technicians  
Anesthesiologists  
Architectural & Civil Drafters  
Athletic Agents & Managers  
Audio-Visual & Multimedia Collection Specialists  
Biomedical Engineers  
Budget Analysts  
Cardiovascular Technologists & Technicians  
Chiropractors  
Choreographers  
Clergy  
Commercial Pilots  
Computer & Information Research Scientists  
Computer Programmers  
Dental Laboratory Technicians  
Desktop Publishers  
Diagnostic Medical Sonographers  
Economists  
Emergency Management Directors  
Environmental Engineers  
Epidemiologists  
Fashion Designers  
Forensic Science Technicians  
Gaming & Sports Book Writers & Runners  
Genetic Counselors  
Health Educators  
Healthcare Practitioners & Technical Workers  
Information Security Analysts  
Interpreters & Translators  
Jewelers & Precious Stone & Metal Workers  
Legal Secretaries  
Library Technicians  
Licensed Practical & Licensed Vocational Nurses  
Makeup Artists  
Marriage & Family Therapists  
Medical & Clinical Laboratory Technologists  
Medical Transcriptionists  
Multimedia Artists & Animators  
Network & Computer Systems Administrators  
Nursing Assistants  
Nuclear Medicine Technologists

Office & Administrative Support Workers  
Optometrists  
Paralegals & Legal Assistants  
Personal Financial Advisors  
Pharmacy Technicians  
Photographers  
Physical Therapists  
Postsecondary Educators (in various specialties)  
Producers  
Proofreaders and Copy Markers  
Psychiatrists  
Radiation Therapists  
Respiratory Therapy Technicians  
Skincare Specialists  
Speech-Language Pathologists  
Surgeons  
Surveyors Statistical Assistants  
Tailors, Dressmakers, & Custom Sewers  
Tax Examiners, Collectors, & Revenue Agents  
Technical Writers  
Veterinarians  
Woodworkers  
Web Developers  
Zoologists & Wildlife Biologists

## Keep in Mind

The career titles listed above are just a fraction of the possible occupation opportunities available within this endorsement area, so be sure to visit TWC's AutoCoder website to find other job titles that may interest you: <http://autocoder.lmci.state.tx.us>.

- Just enter a job title or a description in the appropriate search box, and you will get a list of the most common title matches.
- Click on the title that best matches the job that interests you, and a catalog of other, closely-related (or interchangeable) job titles will appear.

## Page 4

### Your FOUNDATION Graduation Requirements

Here's what every Texas student needs to graduate under the Foundation High School Program. Remember that your school district has the authority to establish requirements in addition to the state minimums for graduation. Check with your school Counselor for more information.

Standard credits needed for the Foundation high School program:

#### 4- English

- English I, II, and III

- Advanced English Course

### **3- Mathematics**

- Algebra I
- Geometry
- Advanced Math Course

### **3-Science**

- Biology
- IPC or advanced science course
- Advanced science course

### **3-Social Studies**

- U.S. History
- U.S. Government (1/2 credit)
- Economics (1/2 credit)
- World History or Geography

### **1-Physical Education**

### **2-Languages other than English**

- Two credits in the same language
- Two credits from Computers Science I, II, and III

### **1-Fine Arts**

### **5-Electives**

- Classes available for electives will be based upon the endorsement options selected by the student.

### **0-Speech**

- Demonstrated proficiency

Total of 22 Credits

## **Additional Credits needed for the Distinguished Level of Achievement Diploma**

### **1-Additional Mathematics**

- All Foundation Program requirements, plus Algebra II

### **1-Additional Science**

- All Foundation Program requirements, plus an advanced science class based on endorsement selection

### **2-Additional Electives**

- All Foundation Program requirements, plus two additional elective classes based on endorsement selection

Total credits of 26

## Performance Acknowledgments

Students can earn one or more Performance Acknowledgments, in addition to any graduation program they follow, for any of the areas listed below. (Please talk to your school Counselor for specific guidelines for each category.)

- Dual Credit course
- Advanced Placement or International Baccalaureate exam performance.
- Bilingualism and biliteracy
- Earning a nationally or internationally recognized business or industry certification or license
- PSAT, ACT-PLAN, SAT, or ACT score

## Page 5

### Your Multi-Disciplinary Endorsement Options

Students interested in earning the Multi -Disciplinary Studies endorsement have several options. You will need to successfully complete Algebra II, Chemistry, and Physics, and choose one of three options to earn your remaining Multi -Disciplinary endorsement credits. You can:

1. Complete four advanced courses that prepare a student to enter the workforce successfully.
  - a. These can be dual-credit classes taken on college campuses (as long as the course is not a remedial/ developmental level class)
  - b. These four classes can be within one endorsement area or several endorsement areas.
2. Complete four credits in each of the four foundation high school subject areas. Must include:
  - a. English IV
  - b. Chemistry
  - c. Physics
3. Complete four credits in AP (Advanced Placement), IB (International Baccalaureate), or Dual-Credit in the following areas:
  - a. English
  - b. Mathematics
  - c. Science
  - d. Social Studies
  - e. Economics
  - f. Languages other than English
  - g. Fine Arts

Can you imagine yourself with this job?

## Technical Writer

Jobs projected in Texas by 2022: 4,520

You will need: a Bachelor's degree

Typical starting pay is: \$46,250 a year

Typical overall pay is: \$70,009 a year

Turnover: Average

## Page 6

Can you imagine yourself with any of these jobs?

### COMPUTER AND INFORMATION SYSTEMS MANAGER

Jobs projected in Texas by 2022: 22,100

You will need: a Bachelor's degree, plus work experience

Typical starting pay is: \$91,462 a year

Typical overall pay is: \$138,723 a year

Turnover: Very Low

### CLINICAL, COUNSELING, AND SCHOOL PSYCHOLOGISTS

Jobs projected in Texas by 2022: 8,810

You will need: Master's degree or higher

Typical starting pay is: \$39,311 a year

Typical overall pay is: \$61,582 a year

Turnover: Low

## Page 7

### The Real Deal

*Using Labor Market Statistics to Filter through Career Options*

It is important to think about how much money you'll earn in any given occupation. But you should consider many other labor market statistics to help you make informed choices.

Check out the information and numbers below for a few jobs in the Multi-Disciplinary fields to see other important statistics you can discover on the Texas CARES website. Use this information to help you determine what's important to you in a career.

### Cardiovascular Technologists and Technicians

You will: Conduct tests on pulmonary or cardiovascular systems of patients for diagnostic purposes. May conduct or assist in electrocardiograms, cardiac catheterizations, pulmonary functions, lung capacity, and similar tests.

- About 77 percent of jobs are in hospitals.

- Workers typically need a 2-year associate degree at a junior or community college; most employers also require a professional credential.
- Technologists and technicians with multiple professional credentials, trained to perform a wide range of procedures, will have the best prospects.

Projected state employment for 2022: 5,700  
 Education needed: Associate degree or higher  
 Annual Wage: \$54,583  
 Turnover: Very Low

## Surveyors

You will: Make exact measurements and determine property boundaries. Provide data relevant to the shape, contour, gravitation, location, elevation, or dimension of land or land features on or near the earth's surface for engineering, mapmaking, mining, land evaluation, construction, and other purposes.

- About 7 out of 10 jobs were in architectural, engineering, and related services. Depending on specialization, may require as little as an Associate degree or as advanced as a Master's.
- Surveyors who have a Bachelor's degree and strong technical skills should have favorable job prospects.

Projected state employment for 2022: 5,830  
 Education needed: Bachelor's degree  
 Annual Wage: \$58,115  
 Turnover: Low

## Web Developers

You will: Design, create, and modify Web sites. Analyze user needs to implement Web site content, graphics, performance, and capacity. May integrate Web sites with other computer applications. May convert written, graphic, audio, and video components to compatible Web formats by using software designed to facilitate the creation of Web and multi media content.

- Excellent job prospects are expected.
- Workers can enter this field with many different levels of formal education, but relevant computer skills are always needed.

Projected state employment for 2022: 13,080  
 Education needed: Associate degree or higher  
 Annual Wage: \$66,997  
 Turnover: Very Low

## Page 8

WANT INFORMATION ON MORE JOBS?

Check out [www.TEXASCARESONLINE.com](http://www.TEXASCARESONLINE.com) to learn about hundreds more Multi-Disciplinary careers!

EXPLORE YOUR FUTURE!

TEXAS WORKFORCE COMMISSION  
Labor Market and Career Information  
101 E. 15th St, Room 0252  
Austin, TX 78778-0001  
866-938-4444 toll free  
Fax: 512-936-3208  
www.texasrealitycheck.com  
www.texasworkforce.org  
email: [lmci@twc.state.tx.us](mailto:lmci@twc.state.tx.us)

Equal Opportunity Employer/Program. Auxiliary aids and services are available upon request to individuals with disabilities. Relay Texas: 800-735-2989 (TTY) and 711 (Voice).

Can you imagine yourself in this job?

## Jeweler

Jobs projected in Texas by 2022: 3,390  
You will need: Post-Secondary Vocational Training  
Typical starting pay is: \$23,468 a year  
Typical overall pay is: \$41,830 a year  
Turnover: Low

## Texas Occupations Adding the Most Jobs Requiring an Associate Degree or Postsecondary Vocational Award\*

	Projected New Jobs	Annual Average Wage
Registered Nurses	53,480	\$67,860
Truck Drivers, Heavy/Tractor-Trailer	37,030	\$40,570
Nursing Assistants	24,310	\$23,810
Licensed Practical/Vocational Nurses	19,850	\$43,730
Medical Assistants	16,400	\$28,130
Hairstylists & Cosmetologists	6,860	\$27,420
Supervisors: Production/Operating Workers	7,140	\$62,240
Firefighters	4,770	\$46,850
Preschool Teachers	4,580	\$34,270
Heating/AC/Refrigeration Mechs/Installers	4,990	\$41,810
Dental Assistants	4,960	\$32,740
Medical Records & Health Info Technicians	4,870	\$37,020
Paralegals & Legal Assistants	5,870	\$52,670
EMTs & Paramedics	4,260	\$33,450
Medical & Clinical Lab Technicians	4,230	\$36,260
Telecommunications Equip. Installers/Rprs	4,460	\$49,290
Dental Hygienists	3,640	\$71,010
Radiologic Technologists	4,060	\$53,490
Aircraft Mechanics & Service Technicians	2,170	\$56,210
Electrical Engineering Technicians	2,560	\$61,020
Computer Network Support Specialists	2,420	\$65,050
Surgical Technologists	3,570	\$43,840
Respiratory Therapists	2,930	\$55,130
Web Developers	2,660	\$64,400
Geological & Petroleum Technicians	1,890	\$61,480
Phlebotomists	2,420	\$29,270
Barbers	1,560	\$29,580
Veterinary Technologists & Technicians	2,490	\$28,400
Electrical Rprs, Commercial/Ind Equip.	1,730	\$56,880
Physical Therapist Assistants	1,970	\$68,730

\*Two or less years of academic study beyond high school.

## Texas Highest Paying Occupations Generally Requiring A Bachelor's Degree

	Annual Average Salary*
Chief Executives	\$185,090
Architectural & Engineering Managers	\$160,340
Petroleum Engineers	\$159,340
Geoscientists, Ex. Hydrologists & Geographers	\$151,560
Airline Pilots, Copilots, & Flight Engineers	\$141,400
Mining & Geological Engineers	\$141,060
Computer & Information Systems Managers	\$135,140
Marketing Managers	\$134,410
Compensation & Benefits Managers	\$133,950
Financial Managers	\$129,800
Sales Managers	\$129,390
Chemical Engineers	\$127,430
Natural Sciences Managers	\$125,750
Purchasing Managers	\$119,530
General & Operations Managers	\$118,250
Human Resources Managers	\$116,640
Actuaries	\$114,720
Training & Development Managers	\$112,360
Marine Engineers & Naval Architects	\$108,390
Industrial Production Managers	\$108,080
Sales Engineers	\$106,180
Nuclear Engineers	\$105,790
Aerospace Engineers	\$105,760
Biomedical Engineers	\$103,900
Computer Hardware Engineers	\$101,140
Materials Scientists	\$100,810
Computer Network Architects	\$100,750
Industrial Engineers	\$99,720
Software Developers, Systems Software	\$99,530
Civil Engineers	\$98,560

\*Experienced workers may earn considerable more.

# Texas Employment Outlook

2012-2022



## Occupational Highlights

- Fastest Growing Occupations
- Occupations Adding The Most Jobs
- Highest Paying Occupations
- Occupations with Most Projected Annual Average Job Openings



Texas Workforce Commission  
 Labor Market & Career Information Department  
 101 East 15th Street, Room 0252  
 Austin, Texas 78778-0001  
 Phone: 512-936-3200  
 Fax: 512-936-3204  
[www.tracer2.com](http://www.tracer2.com)  
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 1-866-938-4444 (toll free)

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Texas Fastest Growing Occupations 2012-2022			Texas Occupations Adding the Most Jobs 2012-2022			Texas Occupations with Most Projected Annual Average Job Openings 2012-2022		
	Projected Growth Rate	Annual Average Wage		Projected New Jobs	Annual Average Wage		Total Job Openings	Annual Average Wage
Diagnostic Medical Sonographers	57.5%	\$65,490	Fast Food Preparation Workers	92,520	\$18,120	Fast Food Preparation Workers	20,155	\$18,120
Interpreters & Translators	49.0%	\$44,290	Personal Care Aides	84,750	\$17,390	Retail Salespersons	19,040	\$25,090
Skincare Specialists	48.5%	\$34,210	Retail Salespersons	61,010	\$25,090	Cashiers	13,875	\$19,490
Petroleum Engineers	45.3%	\$159,340	Registered Nurses	53,480	\$67,860	Waiters & Waitresses	13,855	\$19,770
Information Security Analysts	45.0%	\$88,090	Customer Service Representatives	48,530	\$30,250	Customer Service Representatives	10,695	\$30,250
Mechanical Insulation Workers	44.8%	\$34,660	Waiters & Waitresses	44,000	\$19,770	General Office Clerks	10,080	\$30,200
Cardiovascular Technicians	44.3%	\$52,540	Janitors & Cleaners	41,220	\$20,850	Personal Care Aides	9,900	\$17,390
Physician Assistants	44.1%	\$102,260	Laborers, Freight/Stock/Material	40,700	\$24,560	Laborers, Freight/Stock/Material	9,830	\$24,560
Occupational Therapy Assistants	44.1%	\$68,340	Elementary School Teachers	39,890	\$50,290	Registered Nurses	9,020	\$67,860
Welding & Soldering Mach Operators	43.3%	\$35,550	Secretaries & Administrative Assistants	39,750	\$31,470	Janitors & Cleaners	7,360	\$20,850
Personal Care Aides	42.5%	\$17,390	General Office Clerks	39,640	\$30,200	Elementary School Teachers	7,095	\$50,290
Nursing Instructors & Teachers	41.6%	\$63,480	General & Operations Managers	38,400	\$118,250	General & Operations Managers	7,065	\$118,250
Industrial Machinery Mechanics	41.4%	\$48,840	Truck Drivers, Heavy/Tractor-Trailer	37,030	\$40,570	Childcare Workers	7,050	\$19,410
Market Research Analysts	41.0%	\$70,000	Cashiers	35,550	\$19,490	Truck Drivers, Heavy/Tractor-Trailer	6,290	\$40,570
Health Specialties Teachers	41.0%	\$126,360	Childcare Workers	31,720	\$19,410	Secretaries & Administrative Assistants	6,190	\$31,470
Meeting & Event Planners	40.9%	\$45,140	Medical Secretaries	30,850	\$30,120	Accountants & Auditors	5,685	\$73,600
Home Health Aides	40.7%	\$20,530	Cooks, Restaurant	29,070	\$21,560	Construction Laborers	5,655	\$27,060
Nurse Practitioners	40.5%	\$101,490	Construction Laborers	27,940	\$27,060	Stock Clerks & Order Fillers	5,225	\$24,270
Logisticians	39.8%	\$83,510	Bookkeeping & Accounting Clerks	27,010	\$36,310	Supervisors: Admin Support Workers	5,170	\$54,380
Medical Secretaries	39.7%	\$30,120	Accountants & Auditors	25,410	\$73,600	Sales Representatives	4,860	\$66,350
Medical Equipment Repairers	39.6%	\$42,960	Sales Representatives	24,380	\$66,350	Secondary School Teachers	4,700	\$51,850
Surgical Technologists	39.3%	\$43,840	Nursing Assistants	24,310	\$23,810	Cooks, Restaurant	4,580	\$21,560
Computer-Controlled Mach Tool Operators	38.1%	\$37,670	Supervisors: Admin Support Workers	24,250	\$54,380	Laborers; Crop/Nursery/Greenhouse	4,520	\$19,310
Physical Therapist Assistants	38.0%	\$68,730	Supervisors: Food Prep Workers	23,360	\$31,400	Supervisors: Food Prep Workers	4,490	\$31,400
Tree Trimmers & Pruners	37.5%	\$26,450	General Maintenance Workers	21,950	\$33,530	Supervisors: Retail Sales Workers	4,435	\$42,840
Medical & Clinical Lab Technicians	37.4%	\$36,260	Secondary School Teachers	20,210	\$51,850	General Maintenance Workers	4,290	\$33,530
Operations Research Analysts	36.8%	\$76,860	Security Guards	20,190	\$25,840	Nursing Assistants	4,105	\$23,810
Riggers	35.2%	\$45,850	Middle School Teachers	19,960	\$50,860	Medical Secretaries	4,020	\$30,120
Pest Control Workers	34.4%	\$30,200	Licensed Practical/Vocational Nurses	19,850	\$43,730	Bookkeeping & Accounting Clerks	3,880	\$36,310
Cooks, Restaurant	34.3%	\$21,560	Home Health Aides	19,730	\$20,530	Groundskeeping Workers	3,860	\$23,210

\* occupations with 2012 employment of 2,500 or more

## Public Service

### *Explore Your Future with the Foundation High School Program*

Published by the Texas Workforce Commission

101 E. 15<sup>th</sup> street, Room 0252

Austin, TX 78778-0001

January 2016

Figuring out what you want to do when you grow up is a challenge, but boy is it worth it! With the Foundation High School Program's endorsement options, you have the opportunity to explore classes and fields of study that interest you TODAY so you can find your dream job TOMORROW. In many of these courses, you will even get to experience what it's like to work in the jobs that interest you. Remember: YOU HAVE OPTIONS, probably more than you have ever considered. If you value long-term relationships with the people you serve, you might consider being a teacher or a coach. If you're interested in law enforcement, you can be a Police Officer, Detective, or a Forensic Science Technician. If you are more interested in the judicial side of the law, you can be a Lawyer, Hearings Officer, Paralegal, Bailiff, or Court Reporter, for example.

So go exploring! Research your endorsement and career interest options before deciding which paths to pursue. The decisions you make about your education today will affect how well you enjoy your job in the future, how much money you earn, your future lifestyle, and so much more. So think it through, plan your future, and have fun!

#### WHAT IS THE FOUNDATION HIGH SCHOOL PROGRAM??

The Foundation High School Program is a detailed plan of 22 credits that you and all your classmates will have to earn in order to graduate from high school. See page 4 for details. An endorsement is something you can add to your high school diploma to show your knowledge and/or skills gained in one of five broad subject matter areas: STEM, Arts and Humanities, Business and Industry, Public Services, and Multidisciplinary Studies. To get an endorsement, you must complete a logical sequence of specific courses approved by your district.

If you have questions about which endorsement would be best for you, talk to your school Counselor!

Can you imagine yourself with this job?

## Elementary School Teacher

Jobs projected in Texas by 2022: 180,920

You will need: a Bachelor's degree and certification

Typical starting pay is: \$41,835 a year

Typical overall pay is: \$51,096 a year

Turnover: Low

## Page 2

How about imagining yourself with this job?

## Firefighter

Jobs projected in Texas by 2022: 30,660

You will need: Long-term training  
Typical starting pay is: \$30,080 a year  
Typical overall pay is: \$46,508 a year  
Turnover: Low

So ... you think you might want to select the Public Service Foundation High School Program endorsement option? Awesome! Browse through some of the data for job titles found under the Business & Industry endorsement in this booklet to help you decide if this is the right educational and career path for you. For more information on jobs in this career field, you can:

1. Call our 24-hour Hotline at 1-800-822-PLAN (7526)
2. Go to the Texas CARES website and search the World of Work at [www.TEXASCARESONLINE.com](http://www.TEXASCARESONLINE.com)
3. Visit the LMCI website to see what available products may best serve your needs:  
[www.LMCI.STATE.TX.US](http://www.LMCI.STATE.TX.US)

We hope that by learning all you can about potential careers in the fields that interest you, you will be empowered to find a career that you love, and that also pays for you to live the way you want once you are living on your own. So enjoy this booklet, explore some options, and don't hesitate to talk to your parents, family, friends, teachers, counselors, and us at the Texas Workforce Commission if you have questions about your career goals.

### Business and Industry occupations can be found in all of the following Achieve Texas career clusters.

Agriculture, Food, and Natural Resources  
Architecture and Construction  
Arts, A/V Technology and Communication  
Business Management and Administration  
Education and Training  
Finance  
Government and Public Administration  
Hospitality and Tourism  
Human Services  
Information Technology  
Law, Public Safety, Corrections and Security  
Science, Technology, Engineering and Mathematics  
Transportation, Distribution, and Logistics

## Page 3

### Sample Public Service Occupations by Emphasis

*Health Science; Agriculture, Food and Natural Resources; and Business Management Career Clusters*

Agriculture Sciences Teacher  
Anesthesiologists  
Athletic Trainers  
Audiologists

Biomedical Engineers  
Cardiovascular Technologists  
Chiropractors  
Court, Municipal, & License Clerks  
Court Reporters  
Diagnostic Medical Sonographers  
Dental Assistants  
Dietitians & Nutritionists  
Epidemiologists  
Fish & Game Wardens  
Legal Secretaries

*Human Services; Architecture and Constructions; and Arts, A/V and Communications Career Clusters*

Barbers  
Child, Family, & School Social Workers  
Childcare Workers  
Clergy  
Community Health Workers  
Counselors, All Others  
Credit Counselors  
Embalmers  
Hairdressers, Hairstylists, & Cosmetologists  
Laundry & Dry-Cleaning Workers  
Marriage & Family Therapists  
Mental Health Counselors  
Morticians, Undertakers, & Funeral Directors  
Personal Care Aides  
Real Estate, & Community Association Managers

*Education and Training, Hospitality and Tourism, and Finance Career Clusters*

Adult Basic Education Literacy teachers  
Archivists  
Audio-Visual & Multimedia Collections Specialists  
Career/Technical Education Teachers  
Clinical, Counseling, & School Psychologists  
Coaches and Scouts  
Curators  
Education Administrators  
Education/Guidance Counselors  
Education Teachers  
Instructional Coordinators  
Librarians  
Personal Financial Advisor  
Teacher Assistants  
Training & Development Specialists

## *Government and Public Administration, STEM, and Transportation and Logistics Career Clusters*

Appraisers & Assessors of Real Estate  
Compliance Officers  
Court, Municipal, & License Clerks  
Detectives & Criminal Investigators  
Dispatchers  
Economists  
Eligibility Interviewers, Government Programs  
Engineering Teachers  
Financial Examiners  
Legislators  
Postal Service Clerks  
Statistical Assistants  
Tax Examiners  
Transportation Inspectors  
Urban & Regional Planners

## *Law, Safety, Corrections, and Security Career Clusters*

Administrative Law Judges  
Animal Control Workers  
Bailiffs  
Correctional Officers and Jailers  
Emergency Management Directors  
Emergency Medical Technicians & Paramedics  
Fire Inspectors & Investigators  
Forensic Science Technicians  
Judges, Magistrate Judges, & Magistrates  
Judicial Law Clerks  
Lawyers  
Paralegals & Legal Assistants  
Police & Sheriff's Patrol Officers  
Private Detectives  
Security Guards

## **Keep in Mind**

The career titles listed above are just a fraction of the possible occupation opportunities available within this endorsement area, so be sure to visit TWC's AutoCoder website to find other job titles that may interest you: <http://autocoder.lmci.state.tx.us>.

- Just enter a job title or a description in the appropriate search box, and you will get a list of the most common title matches.
- Click on the title that best matches the job that interests you, and a catalog of other, closely-related (or interchangeable) job titles will appear.

## Page 4

### Your FOUNDATION Graduation Requirements

Here's what every Texas student needs to graduate under the Foundation High School Program. Remember that your school district has the authority to establish requirements in addition to the state minimums for graduation. Check with your school Counselor for more information.

Standard credits needed for the Foundation high School program:

#### 4- English

- English I, II, and III
- Advanced English Course

#### 3- Mathematics

- Algebra I
- Geometry
- Advanced Math Course

#### 3-Science

- Biology
- IPC or advanced science course
- Advanced science course

#### 3-Social Studies

- U.S. History
- U.S. Government (1/2 credit)
- Economics (1/2 credit)
- World History or Geography

#### 1-Physical Education

#### 2-Languages other than English

- Two credits in the same language
- Two credits from Computers Science I, II, and III

#### 1-Fine Arts

#### 5-Electives

- Classes available for electives will be based upon the endorsement options selected by the student.

#### 0-Speech

- Demonstrated proficiency

Total of 22 Credits

## Additional Credits needed for the Distinguished Level of Achievement Diploma

### 1-Additional Mathematics

- All Foundation Program requirements, plus Algebra II

### 1-Additional Science

- All Foundation Program requirements, plus an advanced science class based on endorsement selection

### 2-Additional Electives

- All Foundation Program requirements, plus two additional elective classes based on endorsement selection

Total credits of 26

## Performance Acknowledgments

Students can earn one or more Performance Acknowledgments, in addition to any graduation program they follow, for any of the areas listed below. (Please talk to your school Counselor for specific guidelines for each category.)

- Dual Credit course
- Advanced Placement or International Baccalaureate exam performance.
- Bilingualism and biliteracy
- Earning a nationally or internationally recognized business or industry certification or license
- PSAT, ACT-PLAN, SAT, or ACT score

## Page 5

### Your Public Safety Endorsement Options

Students interested in earning the Public Services endorsement have several options. You will need to successfully complete Algebra II, Chemistry, and Physics, and choose one of two options to earn your remaining Public Service endorsement credits. You can:

1. Complete consecutive levels [For example: Principles of Human Services followed by Travel and Tourism or Introduction to Education followed by Ready Set Teach I] of four or more CTE (Career Technical Education) courses with the first two of them being from the same career cluster.
  - a. The third CTE credit must be from an advanced course
  - b. The fourth CTE credit must come from a class in one of the following career clusters:
    - Education and Training

- Government and Public Administration
- Health Science
- Human Services
- Law, Public Safety, Corrections, and Security

2. Complete four courses in Junior Reserve Officer Training Corps (JROTC).

Can you imagine yourself with this job?

## **Emergency Medical Technician**

Jobs projected in Texas by 2022: 19,080  
You will need: Vocational training and certification  
Typical starting pay is: \$23,613 a year  
Typical overall pay is: \$35,015 a year  
Turnover: Low

## **Page 6**

**Can you imagine yourself with any of these jobs?**

### **DETECTIVE AND CRIMINAL INVESTIGATOR**

Jobs projected in Texas by 2022: 20,810  
You will need: High school diploma minimum  
Typical starting pay is: \$45,203 a year  
Typical overall pay is: \$77,628 a year  
Turnover: Low

### **REGISTERED NURSE**

Jobs projected in Texas by 2022: 242,860  
You will need: Associate degree and certification  
Typical starting pay is: \$51,318 a year  
Typical overall pay is: \$68,584 a year  
Turnover: Low

## **Page 7**

### **The Real Deal**

*Using Labor Market Statistics to Filter through Career Options*

It is important to think about how much money you'll earn in any given occupation. But you should consider many other labor market statistics to help you make informed choices.

Check out the information and numbers below for a few jobs in the Public Service fields to see other important statistics you can discover on the Texas CARES website. Use this information to help you determine what's important to you in a career.

## **Radiologic Technologist**

You will: Take x rays and CAT scans or administer nonradioactive materials into patient's blood stream for diagnostic purposes. Includes technologists who specialize in other scanning modalities.

- Employment is projected to grow faster than average; those with knowledge of more than one diagnostic imaging procedure will have the best employment opportunities.
- Formal training programs in radiography are offered in hospitals or colleges and universities and lead to a certificate, an associate degree, or a bachelor's degree.

Projected state employment for 2022: 17,410

Education needed: Associate degree

Annual Wage: \$54,245

Turnover: Very Low

## **Community Health Worker**

You will: Help individuals and communities adopt healthy behaviors. Conduct outreach for medical personnel or health organizations.

- May provide information on available resources, provide social support and informal counseling.
- May collect data to help identify community health needs.

Projected state employment for 2022: 4,510

Education needed: Bachelor's degree

Annual Wage: \$35,270

Turnover: Low

## **Librarians**

You will: Administer libraries and perform related library services. Work in a variety of settings, including public libraries, educational institutions, corporations, law firms, healthcare providers, and more.

- A Master's degree in library science is required for most librarian positions. School librarians also often need to meet State teaching license requirements.
- Job opportunities are expected to be favorable, as a large number of librarians are likely to retire in the coming decade.

Projected state employment for 2022: 12,230

Education needed: Master's degree

Annual Wage: \$55,258

Turnover: Low

## **Page 8**

WANT INFORMATION ON MORE JOBS?

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Can you imagine yourself in this job?

### **Child and Family Social Worker**

Jobs projected in Texas by 2022: 18,330  
You will need: a Bachelor's degree or higher  
Typical starting pay is: \$32,128 a year  
Typical overall pay is: \$40,478 a year  
Turnover: Low

# Science, Technology, Engineering and Mathematics (STEM)

*Explore Your Future with the Foundation High School Program*

Published by the Texas Workforce Commission

101 E. 15<sup>th</sup> street, Room 0252

Austin, TX 78778-0001

January 2016

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Remember: YOU HAVE OPTIONS, probably more than you have ever considered. Maybe you're interested in the medical field, but not sure if you want to be a medical doctor. You could also consider being a Registered Nurse, Medical Lab Technologist, or Nutritionist. Did you know some medical field jobs only require a two-year college degree and certification? Yep, like Cardiovascular Technologist, Veterinary Technician, Diagnostic Medical Sonographer, and Physical Therapy Assistants, just to name a few.

So go exploring! Research your endorsement and career interest options before deciding which paths to pursue. The decisions you make about your education today will affect how well you enjoy your job in the future, how much money you earn, your future lifestyle, and so much more. So think it through, plan your future, and have fun!

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If you have questions about which endorsement would be best for you, talk to your school Counselor!

Can you imagine yourself with this job?

### Chemical Technician

Jobs projected in Texas by 2022: 6,960

You will need: Associate degree

Typical starting pay is: \$28,976 a year

Typical overall pay is: \$51,556 a year

Turnover: Low

## Page 2

How about imagining yourself with this job?

### Architect

Jobs projected in Texas by 2022: 11,190

You will need: a Bachelor's degree  
Typical starting pay is: \$47,497 a year  
Typical overall pay is: \$79,959 a year  
Turnover: Low

## **App Developer**

Jobs projected in Texas by 2022: 50,780  
You will need: a Bachelor's degree  
Typical starting pay is: \$63,432 a year  
Typical overall pay is: \$97,035 a year  
Turnover: Very Low

So ... you think you might want to select the Science, Technology, Engineering and Mathematics Foundation High School Program endorsement option? Awesome! Browse through some of the data for job titles found under the Business & Industry endorsement in this booklet to help you decide if this is the right educational and career path for you. For more information on jobs in this career field, you can:

1. Call our 24-hour Hotline at 1-800-822-PLAN (7526)
2. Go to the Texas CARES website and search the World of Work at [www.TEXASCARESONLINE.com](http://www.TEXASCARESONLINE.com)
3. Visit the LMCI website to see what available products may best serve your needs:  
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We hope that by learning all you can about potential careers in the fields that interest you, you will be empowered to find a career that you love, and that also pays for you to live the way you want once you are living on your own. So enjoy this booklet, explore some options, and don't hesitate to talk to your parents, family, friends, teachers, counselors, and us at the Texas Workforce Commission if you have questions about your career goals.

## **Business and Industry occupations can be found in all of the following Achieve Texas career clusters.**

Agriculture, Food, and Natural Resources  
Architecture and Construction  
Arts, A/V Technology and Communication  
Business Management and Administration  
Education and Training  
Finance  
Health Science  
Human Services  
Information Technology  
Manufacturing  
Science, Technology, Engineering and Mathematics  
Transportation, Distribution, and Logistics

## Page 3

### Sample Public Service Occupations by Emphasis *Science*

Astronomers  
Biochemists/ Biophysicists  
Biomedical Researcher  
Cellular Biologists  
Chemists  
Environmental Scientists  
Food Scientists  
Forensic Scientists  
Foresters  
Geneticists  
Hydrologists  
Meteorologists  
Microbiologists  
Soil Conservationists  
Space Scientists

### *Technology*

App Developers  
Computer Engineers  
Computer Hardware Engineer  
Computer Network Architects  
Computer Network Specialists  
Computer Programmers  
Computer Research Scientists  
Computer Systems Analyst  
Database Administrators  
Graphic Designers  
Information Security Analyst  
Multi-Media Animators  
Network Administrators  
Software Developers  
Web Developers

### *Engineering*

Aerospace Engineers  
Automotive Engineers  
Chemical Engineers  
Civil Engineers  
Drafters  
Electrical Engineers  
Industrial Engineers

Marine Architects  
Mechanical Engineers  
Mining Engineers  
Nuclear Engineers  
Petroleum Engineers  
Product Safety Engineers  
Robotics Engineers  
Solar Energy Engineers

### *Mathematics*

Accountant  
Actuaries  
Auditors  
Biostatisticians  
Budget Analysts  
Cartographers  
Credit Analysts  
Economists  
Financial Managers  
Loan Officers  
Mathematical Technicians  
Mathematicians  
Math Teacher  
Revenue Agents  
Statisticians

### *Health Science*

Anesthesiologists  
Chiropractors  
Dental Hygienists  
Family Practitioner  
Health Service Manager  
Medical Lab Technician  
Medical Records Technician  
Medical Sonographers  
Nutritionists  
Optometrists  
Pharmacists  
Physical Therapists  
Registered Nurses  
Surgeon  
Veterinary Technologist

### **Keep in Mind**

The career titles listed above are just a fraction of the possible occupation opportunities available within this endorsement area, so be sure to visit TWC's AutoCoder website to find other job titles that may interest you: <http://autocoder.lmci.state.tx.us>.

- Just enter a job title or a description in the appropriate search box, and you will get a list of the most common title matches.
- Click on the title that best matches the job that interests you, and a catalog of other, closely-related (or interchangeable) job titles will appear.

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### Your FOUNDATION Graduation Requirements

Here's what every Texas student needs to graduate under the Foundation High School Program. Remember that your school district has the authority to establish requirements in addition to the state minimums for graduation. Check with your school Counselor for more information.

Standard credits needed for the Foundation high School program:

#### 4- English

- English I, II, and III
- Advanced English Course

#### 3- Mathematics

- Algebra I
- Geometry
- Advanced Math Course

#### 3-Science

- Biology
- IPC or advanced science course
- Advanced science course

#### 3-Social Studies

- U.S. History
- U.S. Government (1/2 credit)
- Economics (1/2 credit)
- World History or Geography

#### 1-Physical Education

#### 2-Languages other than English

- Two credits in the same language
- Two credits from Computers Science I, II, and III

#### 1-Fine Arts

#### 5-Electives

- Classes available for electives will be based upon the endorsement options selected by the student.

#### 0-Speech

- Demonstrated proficiency

Total of 22 Credits

## **Additional Credits needed for the Distinguished Level of Achievement Diploma**

### **1-Additional Mathematics**

- All Foundation Program requirements, plus Algebra II

### **1-Additional Science**

- All Foundation Program requirements, plus an advanced science class based on endorsement selection

### **2-Additional Electives**

- All Foundation Program requirements, plus two additional elective classes based on endorsement selection

Total credits of 26

## **Performance Acknowledgments**

Students can earn one or more Performance Acknowledgments, in addition to any graduation program they follow, for any of the areas listed below. (Please talk to your school Counselor for specific guidelines for each category.)

- Dual Credit course
- Advanced Placement or International Baccalaureate exam performance.
- Bilingualism and biliteracy
- Earning a nationally or internationally recognized business or industry certification or license
- PSAT, ACT-PLAN, SAT, or ACT score

## **Page 5**

### **Your STEM Endorsement Options**

Students interested in earning the STEM endorsement have several options. You will need to successfully complete Algebra II, Chemistry, and Physics, and choose one of five options to earn your remaining STEM endorsement credits. You can:

1. Complete consecutive levels [For example: Principles of Engineering followed by Introduction to Engineering Design or Medical Terminology followed by Pharmacology] of four or more Career Technical Education (CTE) courses with the first two being from the same career cluster.
  - a. The third CTE credit must be from an advanced course
  - b. The fourth CTE credit must come from a class in the STEM career cluster

2. Complete four credits from the following Computer Science course options:
  - a. Fundamentals of Computer Science
  - b. Computer Science I, II, and III
  - c. AP Computer Science
  - d. IB Computer Science, Standard Level
  - e. IB Computer Science, Higher Level
  - f. Discrete Mathematics for Computer Science
  - g. Digital Forensics
  - h. Game Programming and Design
  - i. Mobile Application Development
  - j. Robotics Programming and Design
  - k. Independent Studies of Technology Applications
3. Complete a total of five mathematics credits by completing:
  - a. Algebra I
  - b. Geometry
  - c. Algebra II
  - d. Any two additional courses in which Algebra II is a prerequisite
4. Complete a total of five science credits by completing:
  - a. Biology
  - b. Chemistry
  - c. Physics
  - d. Any two additional science courses
5. Successfully complete Algebra II, Chemistry, Physics, and:
  - a. Three additional credits from no more than two of the areas listed in options 1 - 4.

Can you imagine yourself with this job?

## Dental Hygienist

Jobs projected in Texas by 2022: 16,030

You will need: Associate degree

Typical starting pay is: \$59,783 a year

Typical overall pay is: \$71,977 a year

Turnover: Low

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### Can you imagine yourself with any of these jobs?

#### VETERINARIAN

Jobs projected in Texas by 2022: 5,060

You will need: degree from an accredited college of veterinary medicine and a state license

Typical starting pay is: \$57,896 a year

Typical overall pay is: \$105,619 a year

Turnover: Average

#### LAB TECHNICIAN

Jobs projected in Texas by 2022: 15,530

You will need: Associate degree

Typical starting pay is: \$26,303 a year

Typical overall pay is: \$37,975 a year

Turnover: Low

#### PHARMACIST

Jobs projected in Texas by 2022: 24,650

You will need: Professional degree

Typical starting pay is: \$96,964 a year

Typical overall pay is: \$118,871 a year

Turnover: Low

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### The Real Deal

#### *Using Labor Market Statistics to Filter through Career Options*

It is important to think about how much money you'll earn in any given occupation. But you should consider many other labor market statistics to help you make informed choices.

Check out the information and numbers below for a few jobs in the STEM fields to see other important statistics you can discover on the Texas CARES website. Use this information to help you determine what's important to you in a career.

#### Computer-Controlled Machine Tool Operator

You will: operate computer-controlled machines or robots to perform one or more machine functions on metal or plastic work pieces.

- Manufacturing industries employ almost all of these workers.
- Workers learn in apprenticeship programs, informally on the job, and in secondary, vocation, or postsecondary schools.
- Expect stiff competition for these jobs.

Projected state employment for 2022: 13,710  
Education needed: High school diploma and on-the-job training  
Annual Wage: \$38,293  
Turnover: Very Low

## Registered Nurse

You will: Assess patient health problems and needs, plan and administer nursing care to ill, injured, convalescent, or disabled patients, and more. Licensing or registration required.

- The largest healthcare occupation, with 2.7 million jobs nationwide.
- About 60 percent of jobs are in hospitals.
- Depending on specialization, may require as little as an Associate degree or as advanced as a Master's.
- Excellent opportunities; may vary by employment and geographic location.

Projected state employment for 2022: 242,860  
Education needed: Associate's degree or higher  
Annual Wage: \$68,584  
Turnover: Very Low

## Civil Engineer

You will: Plan, design and oversee construction and maintenance of structures and facilities like roads, railroads, airports, bridges and more.

- Bachelor's degree is sufficient for most starting positions, but some research positions may require a graduate degree.
- Starting salaries are among the highest of all college graduates.
- Continuing education is needed for engineers to keep up with technological advancements.

Projected state employment for 2022: 30,540  
Education needed: Bachelor's degree  
Annual Wage: \$100,325  
Turnover: Low

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WANT INFORMATION ON MORE JOBS?

Check out [www.TEXASCARESONLINE.com](http://www.TEXASCARESONLINE.com) to learn about hundreds more STEM careers!

EXPLORE YOUR FUTURE!

TEXAS WORKFORCE COMMISSION  
Labor Market and Career Information  
101 E. 15th St, Room 0252  
Austin, TX 78778-0001  
866-938-4444 toll free  
Fax: 512-936-3208

www.texasrealitycheck.com  
www.texasworkforce.org  
email: [lmci@twc.state.tx.us](mailto:lmci@twc.state.tx.us)

Equal Opportunity Employer/Program. Auxiliary aids and services are available upon request to individuals with disabilities. Relay Texas: 800-735-2989 (TTY) and 711 (Voice).

Can you imagine yourself in this job?

## **Environmental Scientist**

Jobs projected in Texas by 2022: 7,300

You will need: a Bachelor's degree minimum, Master's degree preferred

Typical starting pay is: \$44,872 a year

Typical overall pay is: \$77,484 a year

Turnover: Low