# Texas Workforce Commission's Foundation High School Program Endorsement Bulletins





# Before We Get Started

### Housekeeping

- Type questions in Q&A box
- 24-48 hours for more ?s
- We will post to our website:
  - Webinar recording
  - Q&A Transcript
  - PowerPoint file

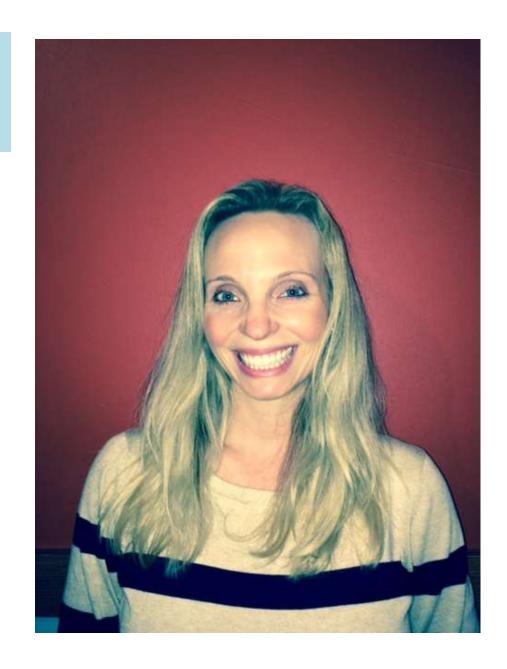
### **Brief Introductions**

- Bulletin Team
  - Lori Knight
  - Mark Lavergne
  - Gary Tucker
- New Addition to LMCI
  - Karla Jasen
  - Still need help

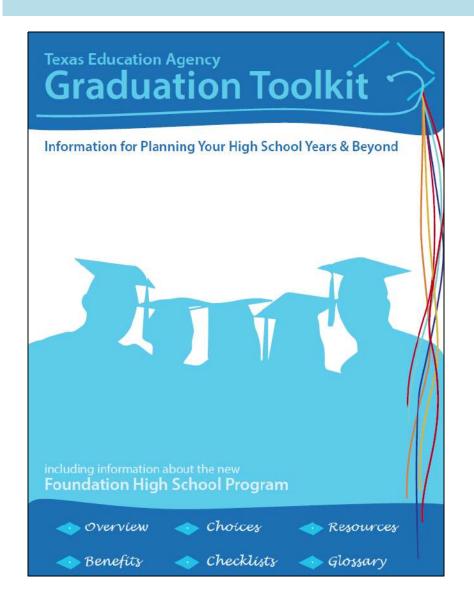
www.workintexas.com

### Karla Jasen

- Recently moved to TX from FL
- Teacher for 11 years
- BA in Education
- MA in Counseling & Psychology
- Excited to be on the team.



# Where we started



- HB 5 Legislation
- Experts (TEA)
  - Resources
  - ☐Tri-Agency Tool Kit
- Studied
  - **I**FHSP
  - Endorsements
  - ■Tool Kit Design

# Texas Education Agency Graduation Toolkit Endorsements – *Choices*

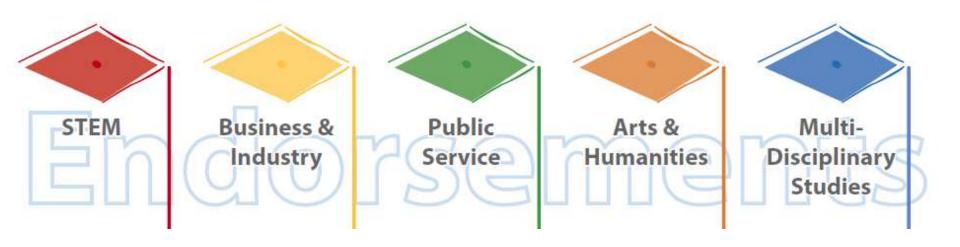
Arts & Humanities Red

Business & Industry Yellow

Multi-Disciplinary Blue

Public Service Green

STEM Red



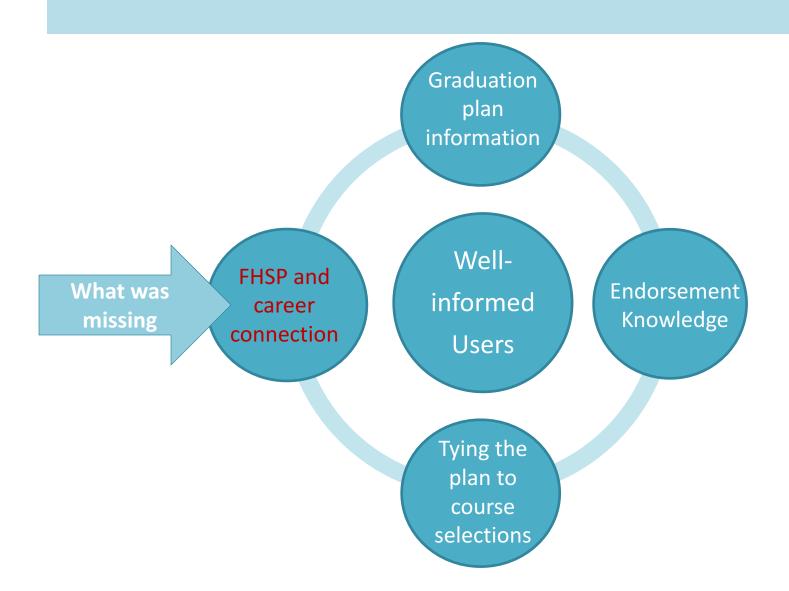
# Research

Collected FHSP tools from other sources

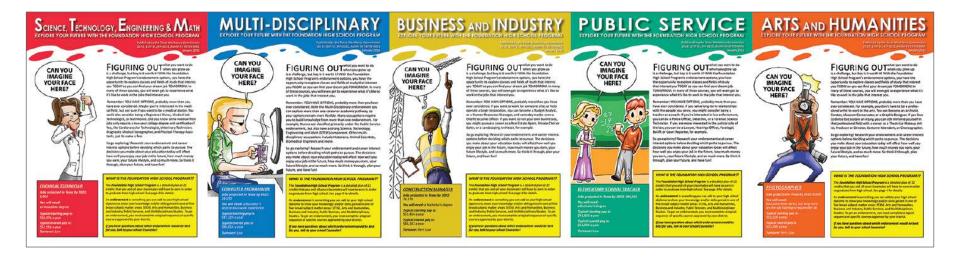
- ☐ESC Regions
- Districts
- **□**Schools
- ☐ Education-Based Organizations

What did we find?...

# Other HB 5 Resources Available



# How TWC Can Help



Foundation High School Program

Career information bulletins

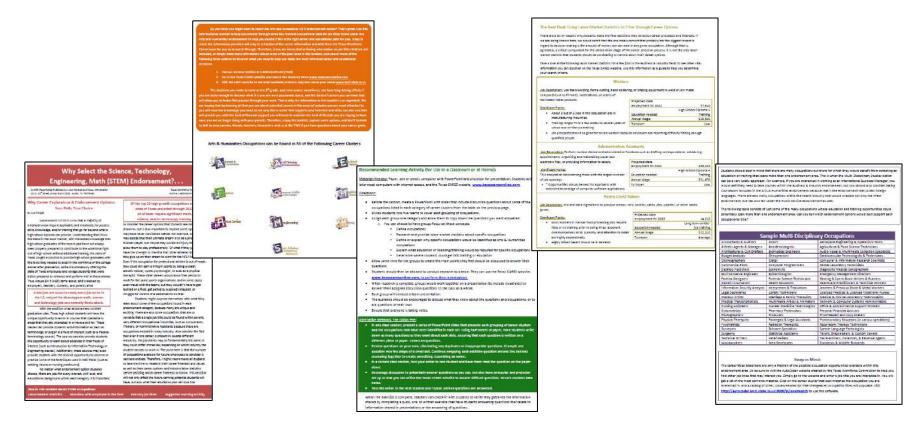
### Data Used was Collected From:

- House Bill 5
- Texas Education Agency's Graduation Tool Kit
- Texas Workforce Commission's
  - Occupation Projections
  - Wage Data
  - Texas CARES career exploration tool

# Goal was a Combined Approach

### First-Round Lessons

- Provided data needed
- Missed audience appeal



# Back to the Drawing Board

Literally

Mark Lavergne

LMCI Editor

(and secret animator)

Put some life (and humor) into bulletins

# Found Other Uses for Art

- Selfie Booth
  - Rave reviews
  - ■A lot more requests

Other LMCI
 Publications





# Page Design and Layout



### **Gary Tucker**



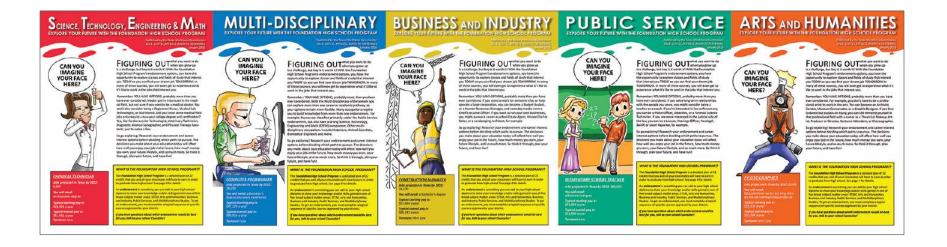
### LMCI Administrator



(and Jack-of-all-trades)



# A Closer Look



### **STEM**



### Considerations When Reviewing Sample Bulletin

- All other versions include the same information
- All versions are color-coded
- Other versions feature occupations relevant to their endorsement
- Format: 8-paged, 8x10 booklet

# Cover Page

### All Covers Include

- Connection -between careerand education
- Graphic of one career in endorsement area with LMI attached
- Definition of FHSP and Endorsements

# SCIENCE, TECHNOLOGY, ENGINEERING & MATH

Published by the Texas Workforce Commission 101 E. 15th St., Rm 0252, Austin TX 78778-0001 January 2016





#### **CHEMICAL TECHNICIAN**

Jobs projected in Texas by 2022: 6,960

You will need: an Associate degree

Typical starting pay is: \$28,976 a year Typical overall pay is: \$51,556 a year Turnover: Low

### FIGURING OUT when you want to do you 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. 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!

#### 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!



#### HOW ABOUT HERE?

#### **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



### Features Include

More graphics of careers within endorsement area with LMI attached

Career Exploration resources

Career Cluster
Connections

you think you might want to select the Science, Technology, Engineering and Math

•••Foundation High School Program endorsement option? Awesome! Browse through some of
the data for job titles found under the STEM 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
- 3. Visit the LMCI website to see what available products may best serve your needs: www.LMCI.STATE.TX.US

We hope that by learning all you can about potential careers in the fields that interest you to live the way 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.

STEM occupations can be found in all of the following Achieve Texas career clusters.



### **Showcases**

- ☐ Table of additional job titles found within endorsement area
  - Created in partnership with TEA
- Resource to find additional job titles

S	ample STEM Occupation	ons 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
	Technolog	Υ.
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
	Engineerin	g
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
	Mathemati	cs
Accountant	Actuaries	Auditors
Biostatisticians	Budget Analysts	Cartographers
Credit Analysts	Economists	Financial Managers
Loan Officers	Mathematical Technicians	Mathematicians
Math Teacher	Revenue Agents	Statisticians
	Health Scier	nce
Anesthesiologists	Chiropractors	Dental Hygienists
Family Pracitioner	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.

#### **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.

<u>,                                    </u>	FOUNDATION HIGH SC PROGRAM	<u> </u>	Distinguished Level	Performance Acknowledgments
Subject	Standard	d Credits Needed	Credits Needed	Students can
English •	English I, II, and III Advanced English Course	4	4	earn one or more Performance Acknowledgments, in addition to any
Mathem • •	atics Algebra I Geometry Advanced Math Course	3	4 All Foundation Program requirements,	graduation program they follow, for any of the areas listed below. (Please
Science • •	Biology IPC or advanced science course Advanced science course	3	4 All Foundation Program requirements, plus an advanced science class based on endorsement selection	Counselor for specific guidelines for each category.)  Dual Credit course  Accounse
Social St	U.S. History	3	3	International Baccalaureate exam performance. • Bilingualism and
Physical	Education	1	1	biliteracy
•	es other than English Two credits in the same language Two credits from Computers Science I, II, and III	2	2	<ul> <li>Earning a nationally or internationally recognized</li> </ul>
Fine Arts	5	1	1	business or industry
Electives	Classes available for electives will be based upon the endorsement options selected by the student.	5	7	certification or license • PSAT, ACT-PLAN, SAT, or ACT
Speech	Demonstrated proficiency	0	0	score
	Total Credits	22	26	

# Page 4

### **Provides**

- Breakdown of the Foundation High School Program requirements
- Additional credits needed for the Distinguished Level
- Explanation of Performance Acknowledgements

# Highlights

- Course options students may have available
  - Follow specific guidelines of HB 5
- Additional occupation graphic accompanied by relevant LMI

#### **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:

- 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
  - n. 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:
  - Three additional credits from no more than two of the areas listed in options 1 - 4.

#### **DENTAL HYGIENIST**

Jobs projected in Texas by 2022: 16 030

You will need: an Associate degree
Typical starting pay is: \$59,783 a year
Typical overall pay is: \$71,977 a year
Turnover: Low

WHAT ABOUT HERE?!?





### **Presents**

Imples graphics of careers within endorsement area with LMI attached

### Includes

- Encourages users to consider multiple factors for any job interests
  - Not just potential salary
- Provides facts to consider
  - Data-driven decision making

#### 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 Science, Technology, Engineering and Math 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 Texas employment for 2022	13,710
Education needed	High School diploma, on-the-job training
2014 Average 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 Texas employment for 2022	242,860
Education needed	Associate Degree or higher
2014 Average 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 Texas employment for 2022	30,540
Education needed	Bachelor's Degree
2014 Average Annual Wage	\$100,325
Turnover	Low

#### WANT INFORMATION ON MORE JOBS?

Check out www.TEXASCARESONLINE.com

> to learn about hundreds more STEM careers!

**EXPLORE YOUR FUTURE!** 

#### ENVIRONMENTAL SCIENTIST

Jobs projected in Texas by 2022: 7,300

You will need:

preferably a Master's degree, Bachelor's

Typical starting pay is: \$44,872 a year Typical overall pay is: \$77,484 a year

Turnover: Low



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

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).

email: Imci@twc.state.tx.us





# **Back Page**

### **Provides**

- Career Exploration resource information
- Final occupation graphic with relevant LMI
- Contact information for our office

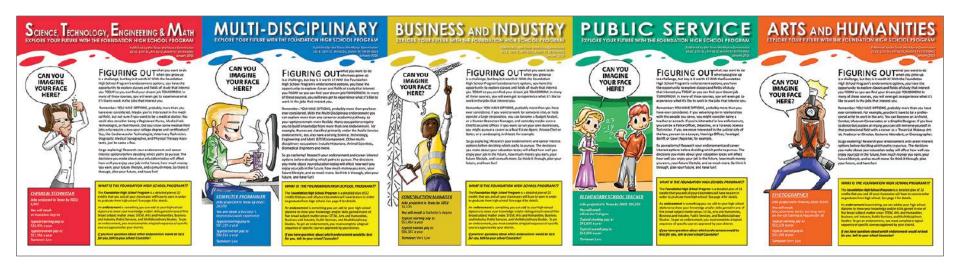
# Note about Featured Occupations

- Sure to provide a range among:
  - Employer demand/ Occupation projections
  - Education requirements
  - ■Salary potential
  - ■Non-Traditional Career Interests

# What do You Think?

#### Interested in the Product?

- Keep questions, comments, requests, etc coming in the Q&A box...
- We can provide answers at the end of the presentation.



# How to Order?

#### To get an order form:

- http://www.lmci.state.tx.us/shared /OrderForms/orderform.html
- Email us, and we'll send you one

#### Complete the order form and:

- Mail to: TWC/ LMCI
   101 East 15<sup>th</sup> Street,
   Annex, Room 0252
   Austin, TX 78778-0001
- Fax to: 512-936-3204

http://www.lmci.state.tx.us/shared/FHSEB/FHSEB.asp

#### Price List and Order Form for LMCI

**Career Development Tools** 

Fill out, and return BOTH PAGES of order form and mail to:

TWC/LMCI 101 East 15th Street, Room 0252 Austin. TX 78778-0001 Toll-Free Career Information Hoffine: 1-800-822-7526 Fax: (512) 936-3204 Homenane: www.lmoi.state.bs.u

<u>Unit Cost</u>			Quantity	Total
Books				
An Atmosphere of Enterprise	\$10.00	X	=	
Working Texas Style (2010)	\$15.00	Х	=	
Licensed Occupations and Apprenticeship (2009)	\$10.00	Х	=	
Growth Abounds: A Forecast of the Texas Labor Market (2013)	\$3.00	X	-	_
Brochures				
Texas Occupational Highlights (employment projections)	\$.10	Х	=	1
Where Do People Find Job Openings?	\$.10	X	=	
Are You A Doer?	\$.10	χ	=	
Financial Aid	\$.10	Х	=	
Top 10 Career Tips for a Successful Future	\$.10	χ	=	
Top 10 Career Tips Posters (Set of 5, 24" x 18")	\$8.00	X	=	
Employer Expectations and Workplace Basic Skills	\$.10	χ	=	×
Magazines				
Foundation High School Endorsement Bulletins (FHSEB)				
FHSEB: STEM	\$.50	χ	=	
FHSEB: Arts & Humanities	\$.50	χ	=	
FHSEB: Business & Industry	\$.50	Х	=	
FHSEB: Public Senices	\$.50	χ	=	
FHSER: Multi-Disciplinary	950	Y		6

# Want to be notified?

- To be added to our mailing list:
  - ☐ Email careerinformation@twc.state.tx.us
  - ☐ Call our hotline 1-800-822-PLAN (7526)
- You will get notifications regarding:
  - ■Publication releases/updates
  - ■Software releases/updates
  - ■Webinar announcements
- To receive TWC legislative updates
  - ☐ Scan the QR code on the right

http://bit.ly/YUB3cD



# Want the Archived Webinars?

- Follow this link: www.lmci.state.tx.us/counselors/presentations/presentations.asp
- Or go to the Counselor/Teacher section of the LMCI website at www.lmci.state.tx.us
  - ☐ First resource link on the left
- Keep an eye out for future webinars

# **Contact information**

Lorena Knight (Lori)

Education Specialist 512-463-4879

<u>lorena.knight@twc.state.tx.us</u>

Karla Jasen

Education Specialist 512-936-3193

karla.jasen@twx.state.tx.us

http://www.lmci.state.tx.us/

# What questions do you have?

# Thank You

Have a great day!

