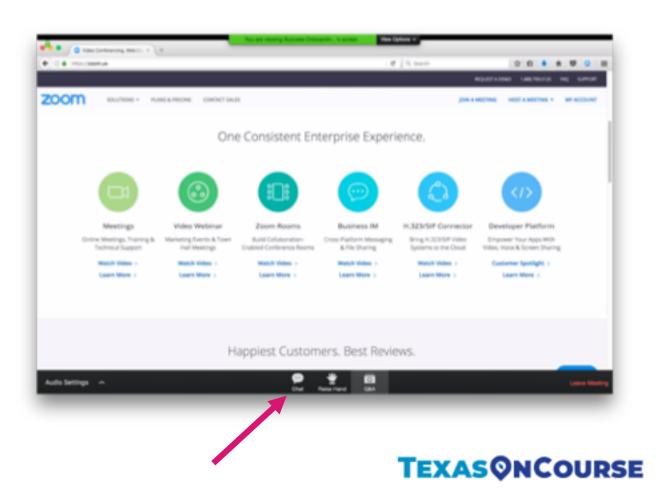
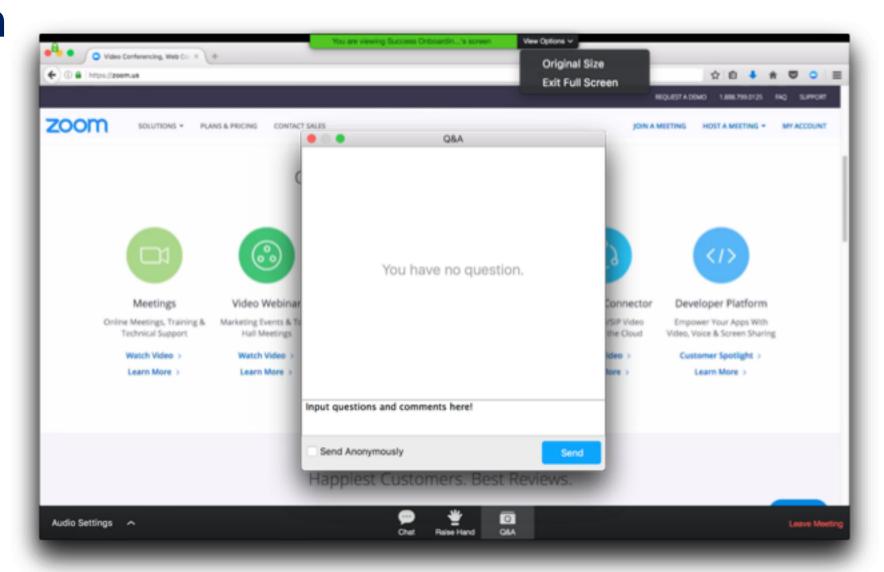
Welcome!

While we wait for everyone to get started...

- Use the chat box to tell us about yourself
 - Name
 - Role
 - ISD/Institution/Organization



Participation and Interaction





Exploring Endorsements with Families 2020–2021

With Texas OnCourse, all Texas students, no matter where they come from or where they're headed, have a plan for success after high school.



Don't Forget to Like and Subscribe on YouTube!





Agenda

- Welcome
- Texas OnCourse resource spotlight
 - Jamie Bell, content and resources
- Endorsement bulletins
 - Major Jones, Texas Workforce Commission
- District perspectives and systems
 - Matthew Esqueda, Houston ISD
- Questions and discussion

Lara Gueguen

Assistant Director of Program Implementation Texas OnCourse





Jamie Bell

Program Coordinator – Middle School Texas OnCourse Content and Resources

Major Jones

Education Outreach Specialist
Texas Workforce Commission, LMCI





Matthew Esqueda

Texas OnCourse Fellow
College and Career Readiness Advisor
Houston ISD

How do you currently share endorsements with families? Please type your responses in the chat box. **TEXASONCOURSE**

Resources Spotlight **Endorsement Resources TEXASONCOURSE**

High School Endorsements Toolkit

High School Endorsements

Endorsement Toolkit December 2020



Endorsement Basics

ENDORSEMENT BASICS by TEXAS ON COURSE

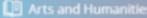
What's an Endorsement?

An endorsement is a set of classes that allows a student to dig into an area of interest to them. It's similar to a college major, allowing the student to learn more about a particular subject

Endorsements connect to different career paths and are meant to help students get familiar with the sorts of ideas, skills, and abilities related to those careers.

Students choose one or more endorsements out of five possibilities. During high school, they'll complete a certain number of courses to earn credit toward their endorsement. When they graduate, their endorsement(s) will be reflected on their transcript and diploma.

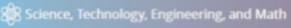
The endorsements are:







Multidisciplinary Studies 👜 Public Service



Endorsements give students an early taste of different career options so that they are more prepared after graduating high school for college and career!

Endorsements in Detail



Arts and Humanities

Do you get excited about learning a new language? Do you dig studying the past and considering how it might impact the future? Do you follow what's going on in the world around you? Do you dream about being on stage or behind the scenes of the school play? Then the Arts and Humanities endorsement might be for you!

Career options include political scientist, art director, economist, lawyer, choreographer, and translator.



Business and Industry

Do you get excited by the idea of starting your own business or playing the stock market? Want to work on construction sites or build websites and IT networks? Does the thought of being a CEO or manager sound cool? Then the Business and Industry endorsement might be for you!

Career options include medical administrative assistant, event planner, construction manager, airline pilot, and financial manager.



Multidisciplinary Studies

If you have too many interests to pick just one endorsement, or you're still deciding what your future might look like, then the Multidisciplinary Studies endorsement might be for you! It will help you graduate as a well-rounded student, ready to go in whatever direction you want.

Career options related to this endorsement include psychologist, security screener, and even CEO!

Exploring Endorsements

Endorsements are paths to help you graduate ready for college or a job you're excited about!

Not all endorsements are available at all schools.

For more detailed information on why students must now choose endorsements, check out our FAQ. For a quick list of everything you need to know, take a peek at our basics page!



Arts and Humanities

If you like art, music, history, or writing.



Science, Technology, Engineering, and Math

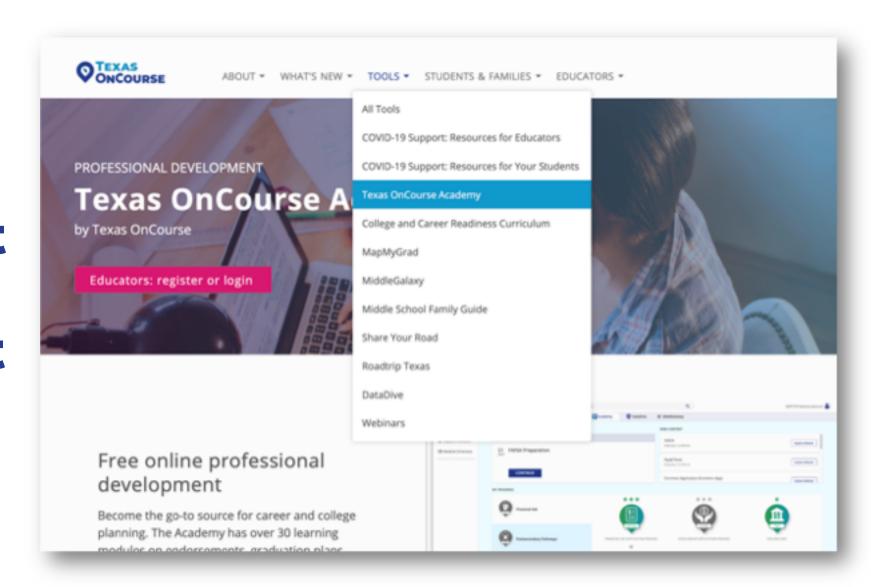
If you like science, math and numbers, or



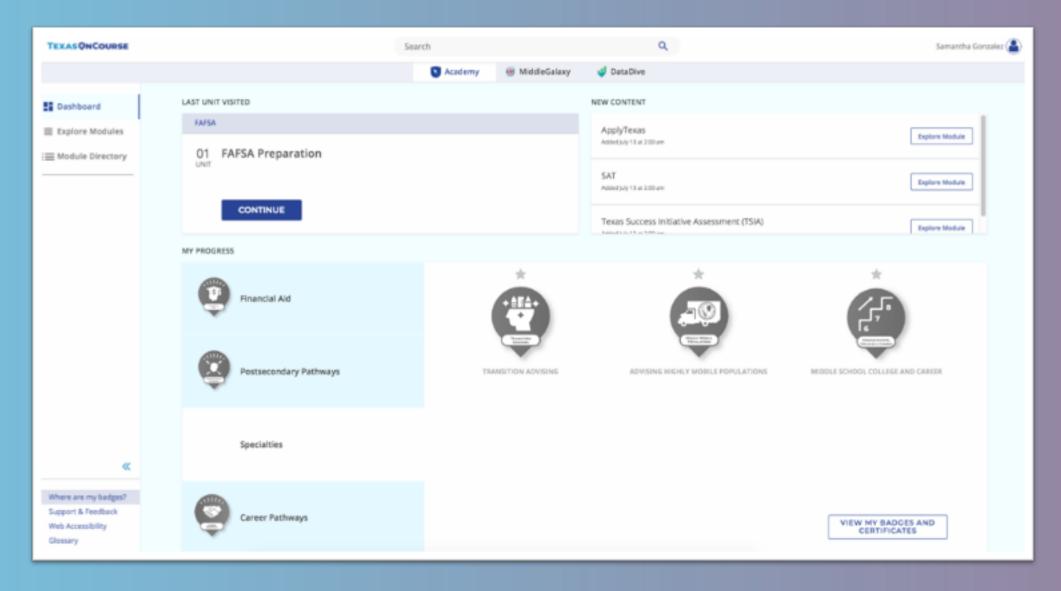
Business and Industry

If you like making things happen.

Professional Development for Endorsement Planning



Academy Dashboard



Academy Modules

Syllabus



TEXAS ONCOURSE ACADEMY SYLLABUS

Use the Texas OnCourse Academy to improve your practice, obtain Continuing Professional Education (CPE) credits, and become more confident in your abilities. The Academy provides comprehensive training for college and career advising across four content areas: career pathways, financial aid, postsecondary pathways, and specialties.

Users can earn badges and up to 31 hours of CPE credit for completing training modules in the Texas OnCourse Academy, as indicated below.

CAREER PATHWAYS

Career Pathways: Foundational Knowledge - 1 hour

Basic Principles of Career Pathways

Career Exploration - 1 hour

Career Assessments

Academic Planning - 2 hours

- O High School Personal Graduation Plan
- O Career Clusters, Pathways, and Endorsements

Career Planning - 1 hour

Career Outlook

Career Learning Experience - 1 hour

Work-Based Learning Experiences

FINANCIAL AID

Financial Aid: Foundational Knowledge - 1 hour

Basic Principles of Financial Aid

Financial Aid Application Process - 3 hours

- Free Application for Federal Student Aid (FAFSA)
- Texas Application for State Financial Aid (TASFA)
- CSS Profile

Scholarship Application Process - 3 hours

- Scholarship Applications
- QuestBridge National College Match
- O National Merit Scholarship Program

College Cost - 1 hour

College Finances

th Disabilities

ons - 1 hour

er - 1 hour

Readiness in Middle School

www.texasoncourse.org | info@texasoncourse.or

TEXAS ON COURSE ACADEMY

Academy Learning Resources

Career Clusters and Careers

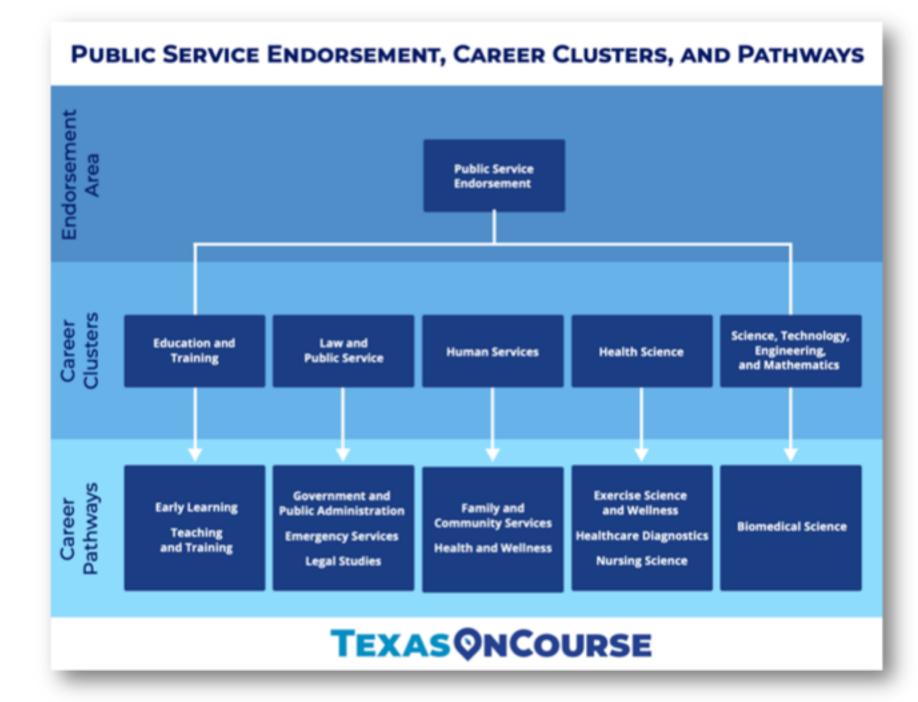
CAREER CLUSTERS AND CAREERS

CAREER CLUSTER	RELATED CAREERS		
Agriculture, Food, and Natural Resources	Agricultural Science Teacher Veterinarian Forest Fire Fighter		
Architecture and Construction	Architect Brickmason or Cement Mason Electrician or Plumber		
Arts, AV Technology, and Communications	Graphic Artist Art, Theatre, or Music Teacher Newspaper Reporter		
Business Management and Administration	Accountant or Auditor Operations Research Analyst Marketing Specialist		
Education and Training	School Counselor or School Psychologist Teacher or Teacher's Aide College Advisor		
Energy	Extraction Workers Oil and Gas Drill Operators Power Plant Operator		
Health Science	Dietician Athletic Trainer Pharmacist		
Hospitality and Tourism	Recreational Leader Camp Counselor Travel Agent		
Human Services	Child Care Worker Recreational Worker Rehabilitation or Substance Abuse Director		
Information Technology	Computer System Engineer, Analyst, or Architect Database Administrator Network Systems Analyst		
Law and Public Service	Firefighter Tax Examiner and Collector Probation Officer or Lawyer		
Manufacturing	Machine Operator Welder Cabinetmaker or Furniture Maker		
Science, Technology, Engineering, and Mathematics	Anthropologist Physicist Environmental Scientist		
Transportation, Distribution, and Logistics	Commercial Pilot Air Traffic Controller Transportation Specialist		



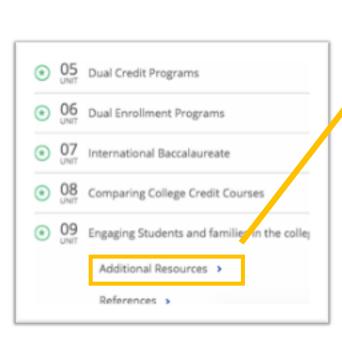
Academy Learning Resources

Example of Public Service Endorsement Career Pathway



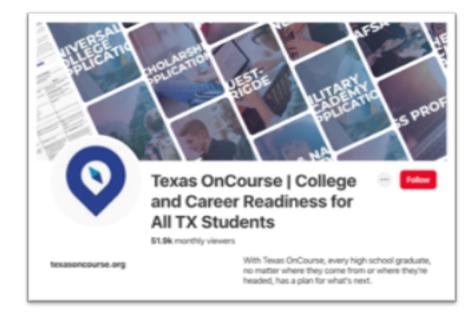
Texas OnCourse Academy Modules

Additional Resources





Pinterest.com/TexasOnCourse



Endorsements in Classroom Instruction

COLLEGE AND CAREER READINESS CURRICULUM

Edition 3.0 (Updated July 2020)





Lesson Plans

Teacher View

Lesson 3.3: Understanding the Five High School Endorsements

The lesson has students explore the five endorsements. identified by House (till 5 and the various career clusters and career pathways identified by the Texas Career and Technical Materials Required Education Resource Center. Student endorsements can change throughout the course of their learning and perhaps over the course of their high school career. This lesson is designed to have the students brainstorm and really think about what they want for their future.

Time Required

80-100 minutes

For the classroom Copy of POF of each of the endorsement summaries per group. See step 2 of the procedure.

For the students:

Interactive journal

Copy of Endorsement Summary handout (following this

Copy of Endorsement Expert handout (following this lesson):

Foundations

\$127.26(\$2) - The student investigates career pathways in one or more of the 16 career clusters. 3. Collect evidence and data The student is expected to:

(A) research the academic requirements for one or more of the careers in an identified cluster; and LE. Work habits (III) research the certification or educational requirements for careers.

\$127.3((\$2) - The student analyzes college and career opportunities. The student is expected to: (A) determine academic requirements for transitioning to high school.

Cross-Disciplinary Standards

LC. Problem Solving

systematically and directly relate to solving a problem.

1. Work collaboratively.

E.A. Reading across the curriculum 4. Identify the key information and supporting details.

5. Analyze textual information critically.

6. Annotate, summarize, paraphrase, and outline tests when

appropriate.

E.C. Research across the curriculum

1. Understand which topics or questions are to be investigated.

2. Explore a research topic. 4. Evaluate the validity and reliability

of sources.

5. Synthesize and organize information effectively.

Student Competencies for Success

Ferres World Student

Competencies intropersonal iffectiveness: Effective executive functioning

Positive self-concept.

Postsecondary Planning and

College Bradiness: Awareness of the importance of postsecondary education Understanding the relationship of academics to work, home, and community Motivation to succeed Possession of knowledge and skills to gather information for

HB 1026 Positive Character

postsecondary education and

Traits

Diligence Persusenance

career planning

Enduring Understandings

Self-evaluation is an ongoing process and a crucial skill for education, work, and life.

Creating a plan for my future is important for preparation to succeed.

Essential Questions

What skills do I need to gain for future goals and success?

How do my educational choices connect with my long-term goals and vision for my life? Learning Objectives

I can evaluate my own personal goals, skills, and interests.

I can research a pathway that aligns with my career and education goals.

I can determine how to use my skills and abilities to set myself up for success.

Student View

Handout: Endorsement Summary Arts and Humanities STEM Multidisciplinary **Business and Industry Public Service** My Own Goals What career path or cluster are you interested in after completing this inventory? What new information have you learned that makes you want to investigate more? Where can you go or what resources can you use to investigate further?

10 Steps to a Grad Plan

10 Steps to a Grad Plan

This guide will walk you through the <u>MapMyGrad site</u>. At the end of step 10, you will have created a personalized graduation plan to be saved and used for future reference.

)) Create an account.

Creating an account with MapMyGrad.org means you can save graduation plans you create.

Select Create an Account (or Sign In if you've already set up a Texas OnCourse account). Don't forget to save your username and password for future use.

2) Find out what it takes to graduate in Texas.

Review the About menu of MapMyGrad, especially the items under The Basics. What's one new piece of information you learned about graduation in Texas?

Notes

3) Learn about endorsements.

On the endorsements pages, you meet people in careers related to that endorsement. Who would you most like to meet in real life? What do they do that interests you?

Notes

4) Take the quiz.

By taking the MapMyGrad quiz, you can determine how your interests and abilities could help you decide which endorsement is a good fit. What do you think about your results?

Family Guide

Quest for Your Student's Success



Getting ready for the next stages in life (college and/or career) can sometimes be a big, scary topic for students. As high school approaches, they may worry about whether they are making the right. choices for the future. You may find yourself scrambling to find the correct information to guide them to that successful future.

Worse, many of your student's friends will have a quick answer. Tim. going to be an engineer." Tim going to be a doctor." Tim going to be a professional athlete." The reality is, those friends (and their parents and guardians) are just as confused and concerned as you and your

What's the answer? Here are some thoughts. It's ekay not to know. Very few people can predict their eventual careers when they're in their teens. Most people change careers five to seven times, anyway.

Part 1: Interests and Skills

Interests are things your student likes, and skills are things your student is good at. The two often go together. People tend to like (or love) what they're skilled in, Improving skills and acquiring new ones is enjoyable, and pursuing interests can lead to various careers. The fact is, your student probably has many more skills and interests than you both realize. Here are some skills that are often overlooked:

- Making friends
- Being a good son or daughter, friend, and citizen
- Having a good sense of humor

60 O Middle School Family Cuide | Second Edition

Being able to manage your own time and goals.

Careers that appeal to your student's interests and skills are the best careers. They are your student's dream careers. The real question. is not what students are going to be when they grow up, but what do they love to do? What is their dream career, and what skills do they currently have? Remember, you and your student have time. Middle school and high school provide students with plenty of time to explore what they like and don't like. Even after high school, they will be exploring paths that appear once they graduate.

Family Action Step

Your student asks: "Who am I, and where

Mage questions, right? We'll narrow them down to manageable parts so you can lead your student to self-knowledge. The this is through interactive activities. Below will help figure things out. We recommend activities along with your student. Then

of your student to a better understanding of markes to take, careers that might fit them, or training they'll need after high school to

Metime to figure this out, let's start simply anality in terms of career and vocational and started developing his theory of career It sorts people into six categories.

ng, flaing, working outdoors)

inking researching experimenting)

L designing, expressing) teaching, encouraging)

Muading leading selling)

anizing, categorizing, recording)

wers will help them learn about their career what it says about them. Take a look at the Test (timyurl.com/glokwult). This can be a ents and guardians, too.

Part 2: Career Clusters and Endorsements

Students earn one or more of five endorsements as part of their graduation requirements. Students must select an endorsement in ninth grade but can change their mind. A student may graduate without sement (not recommended) after their sophomore year. The parent or guardian can sign a form permitting them to omit prement requirement. This frequently involves a meeting Mod official, the parent or guardian, and the student.

an endorsement as a major for high school students - a eries of courses that are grouped together by interest or skill tents get an in-depth knowledge of a subject or career area

a major, students have the option to change their ment. Each endorsement generally requires your student to eses (in a sequence) that relate to their professional plans

the default graduation plan now places all current highnudents on a path to earn an endorsement. Here are some s of careers and high school courses that connect to each of

Humanities to be an actor, musician, artist, or writer. dett should take high school courses in English, drama, and

s and Industry to start your own business. Your student ake high school courses in math, accounting, and computer

ciplinary Studies to pick from a range of interesting classes. to career paths, college, or apprentionship.

ervice to be a lawyer or corrections officer. Your student ake high school courses in law studies, sociology, and

Technology, Engineering, and Math (STEM) to be a engineer or IT systems manager. Your student should take coll courses in mathematics, computer science, chemistry,

mag of jobs and industries that are related by Department of Labor has identified sixteen fithe clusters is listed below with an example of larger Dusters (tinyor).com/yd38c2q0.

nd Natural Resources (example: Food scientist) METACSON (example: home designer)

chinology, and Communications (example:

witt and Administration invample: human

rang lesample teachers

Affic Administration (example: legislative aide)

ample biotechnology researcher)

arish (example tour company manager)

sample mental health-counselors

ology lexample: system administrator) Demections, and Security/Invample: emergency

ample quality assurance technicars e publicus

s. Engineering, and Mathematics (STEM)

Bribution, and Logistics insample: air traffic

a set of courses that align high school education Bucation. They include challenging content to acceed in education and the workforce.

unity, where appropriate, for high school liege and technical school credits. Students dry-recognized credential or certificate or an

2019 | Texas OnCourse 0 03



High School Endorsements Toolkit

High School Endorsements

Endorsement Toolkit December 2020



Major Jones, Education Outreach Specialist

Texas Workforce Commission

Labor Market and Career Information



Foundation High School Endorsement Bulletins

Science, Technology, Engineering & Math

in the jobs that interest you.

101 E. 15th St., Rm 0252, Austin TX 78778-0001



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

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

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

WHAT IS THE FOUNDATION HIGH SCHOOL PROGRAM?

redits that you and all your classmates will have to earn in order to graduate from high school. See page 4 for details.

broad subject matter areas: STEM, Arts and Humanities, Business courses approved by your district.

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



Science, Technology, **Engineering & Math**

Can you see **YOURSELF** here?



CHEMICAL TECHNICIAN

Projected number of jobs in Texas by 2026:

7.500

You will need:

Associate's degree

Typical starting pay: \$36,089

> Average pay: \$59,663



EXPLORE YOUR FUTURE WITH THE FOUNDATION HIGH SCHOOL PROGRAM



FOUNDATION HIGH SCHOOL

A plan of 22 credits you and all your classmates will have to earn to graduate high school. (See page 5)



ENDORSEMENT

An option you can add to your high school diploma to show your knowledge and skills gained in one of five areas: STEM, Arts & Humanities, Business & Industry, Public Services, and Multidiscilpinary Studies.

You must complete specific courses approved by your district.



ENDORSEMENTS QUESTIONS?

Talk to your school Counselor!

Published by the Texas Workforce Commission | 101 E. 15th St., Rm 354, Austin, TX 78778-0001 | March 2020





CHEMICAL TECHNICIAN

7,500

You will need:

\$29.097 a vear

\$50,437 a year

Turnover: Low

an Associate degree

Typical starting pay is:

Typical average pay is:

Jobs projected in Texas by 2024:

through, plan your future, and have fun!

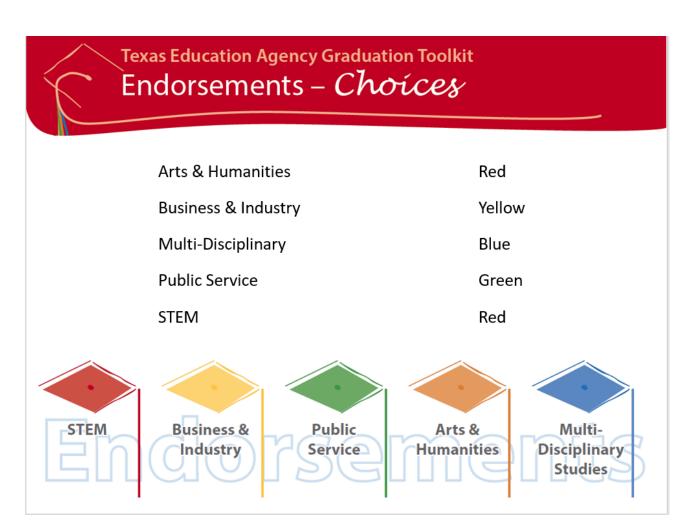
The Foundation High School Program is a detailed plan of 22

An endorsement is an option you can add to your high school diploma to show your knowledge and/or skills gained in one of five and Industry, Public Services, and Multidisciplinary Studies. To get an endorsement, you must complete a logical sequence of specific



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: 12-paged, 8x10 booklet





Cover Page

All covers include the following:

- Graphic of one career in endorsement area with LMI attached
- ■Definition of FHSP and Endorsements

Science, Technology, Engineering & Math

Can you see
YOURSELF
here?



CHEMICAL TECHNICIAN

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Published by the Texas Workforce Commission | 101 E. 15th St., Rm 354, Austin, TX 78778-0001 | March 2020



Features include:

- Connection between career and education
- More graphics of careers within endorsement area with LMI attached
- Texas Career Cluster Connections

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. 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 Assistant, just to name a few.



through, plan your future, and have fun?

The Foundation High School Program | STEM



VISIT



For more information on jobs in STEM:

GO TO click "Explore Careers"

CALL 1-800-822-PLAN (7526) our 24-hour Hotline

So, you think you might want to select the STEM Foundation High School Program endorsement. option? Awesome! Browse through some of the data for Science, Technology, Engineering and Math. job titles in this booklet to help you decide if this is the right educational and career path for you.

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.

STEM Occupations Can Be Found In The Following Career Clusters:



Education & Training



Marketing & Finance



Manufacturing





Information Technology



Science



Human Services



Architecture & Construction



Agriculture, Food & Natural Resources



Transportation, Distribution & Logistics



Technology & Communications

Showcases

- More STEM related careers
- □ Link to AutoCoder.Imci.state. tx.us

TO THE RIGHT

are some sample occupations under the STEM endorsement. Not all STEM-related occupations are included here (there are hundreds), and some of those listed may also fall under other endorsements.

VISIT

TWC's Autocoder website at autocoder.lmci. state.tx.us to find other job titles that may interest you! Just enter a job title or description in the search field and common titles will populate. Upon selecting one, a catalog of other closely related job titles will appear.

SCIENCE Astronomer Biochemist/ Biophysicist Biomedical Researcher Cellular Biologist Chemist Environmental Scientist Food Scientist Forensic Scientist Forester

Geneticist

Hydrologist

Meteorologist

TECHNOLOGY

App Developer Computer Engineer Computer Hardware Engineer Computer Network Architect Computer Network Specialist Computer Programmer Computer Research Scientist Computer Systems Analyst Database Administrator Graphic Designer Information Security Analyst Multimedia Animator

ENGINEERING

Aerospace Engineer Automotive Engineer Chemical Engineer Civil Engineer Drafters Electrical Engineer Industrial Engineer Marine Architect Mechanical Engineer Mining Engineer Nuclear Engineer Petroleum Engineer

STEM OCCUPATIONS BY EMPHASIS

Anesthesiologist Chiropractor Dental Hygienist Family Practitioner Health Service Manager Medical Lab Technician Medical Records Technician Medical Sonographer Nutritionist Optometrist Pharmacist

The Foundation High School Program | STEM



Provides

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

FOUNDATION HIGH SCHOOL GRADUATION REQUIREMENTS

This table shows what every Texas student needs to graduate. Every student must earn the 22 credits under the "Foundation-Only" column. Your parents or guardians will need to give the school district written permission to allow you not to earn an endorsement. Otherwise, you must pick an endorsement and earn the total 26 credits to graduate. Remember that your school district has the authority to establish requirements in addition to those listed here. Check with your school counselor for more information.

Courses Required for Foundation-Only Credits	Foundation-Only Credits	Foundation + Endorsement Credits	Distinguished Level Credits
ENGLISH English I, II, and III Advanced English course	4	4	4
MATH Algebra I Geometry Advanced Math course	3	4 all Foundation-Only +1 advanced Math	4 all Foundation-Only +Algebra II
SCIENCE Biology Integrated Physics & Chemistry Advanced Science course	3	4 all Foundation-Only +1 advanced Science	4 all Foundation-Only +1 advanced Science
SOCIAL STUDIES U.S. History U.S. Government (1/2 credit) Economics (1/2 credit) World History or Geography	3	3	3
PHYSICAL EDUCATION	1	1	1
LANGUAGES OTHER THAN ENGLISH 2 credits in the same language or 2 credits from Computer Science I, II, & III	2	2	2
FINE ARTS	1	1	1
ELECTIVES Classes available for electives will be based upon the endorsement options selected by the student	5	7	7
SPEECH Demonstrated proficiency	0	0	0
TOTAL CREDITS	22	26	26

PERFORMANCE ACKNOWLEDGMENTS

Students can earn one or more Performance Acknowledgments in addition to whichever graduation program they follow. There are several different areas in which students can earn these acknowledgments, shown below. See your school Counselor for specific guidelines.

Performance Acknowledgments Can Be Earned With The Following:

- A nationally (or internationally) recognized business/industry certification or license
- Advanced Placement or International Baccalaureate exam performance
- 3 PSAT, ACT-PLAN, SAT, or ACT score
- 4 Bilingualism and biliteracy
- 5 Dual Credit course





Highlights

- Course options that students may have available
 - Follow specific
- Additional accompanied by relevant LMI

YOUR STEM ENDORSEMENT OPTIONS

Students interested in earning the STEM endorsement have several options. Once you've met your Foundation graduation requirements, you will need to successfully complete additional advanced courses in math and science (one each), plus electives, and choose one of the five options below to earn your remaining STEM endorsement credits.



- 1. Complete consecutive levels of 4 or more Career Technical Education (CTE) courses, with the first 2 belonging to the same career cluster.*
- a. The third CTE credit must be from an advanced course
- The fourth CTE credit must come from a class in the STEM career cluster
- 2. Complete 4 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 5 Mathematics credits:
- a. Algebra I
- b. Geometry
- c. Algebra II
- d. Any 2 additional courses in which Algebra II is a prerequisite
- 4. Complete a total of 5 Science credits:
- a. Biology
- b. Chemistry
- c. Physics
- d. Any 2 additional science courses
- 5. Complete Algebra II, Chemistry, & Physics, along with the following:
- a. Any 3 additional credits from no more than 2 of the areas listed in options 1-4.

*For example: Principles of Engineering followed by Introduction to Engineering Design, or Medical Terminology followed by Pharmacology

The Foundation High School Program | STEM

Keep In Mind

The career titles listed here are just a fraction of all the possible occupation opportunities available in the STEM endorsement area, so be sure to visit TWC's AutoCoder website to find other job titles that may interest you: autocoder.lmci.state.tx.us.

VETERINARIAN Texas by 2026: 5,710 You will need: Doctoral Degree

Typical starting pay:

\$60,308

Average pay: \$124,061

AUDITING CLERK

Jobs projected in Texas by 2026:

140.549

You will need:

High School Diploma Typical starting pay:

> \$27,173 Average pay:

\$41,392



Jobs projected in Texas by 2026:

6,370

You will need: Bachelor's degree,

Master's preferred

Typical starting pay: \$48,516

Average pay: \$80,876



9



guidelines of HB 5

occupation graphic

Presents

- Multiple graphics of careers within endorsement area with LMI attached
 - Encourages users to consider multiple factors for any job interests
 - Not just potential salary
 - Provides facts to consider
 - Data-driven decision-making

CAN YOU SEE YOURSELF HERE?

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 several other factors to help you make informed choices. Check out the information and numbers below for a few jobs in the Science, Technology, Engineering and Marh fields to see other important statistics you can discover on the Texas Career Check website, texascareercheck.com. Use this information to help you determine what's important to you in a career.

YOU WILL:

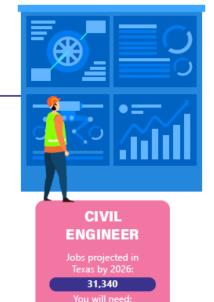
Plan, design and oversee construction and maintenance of structures and facilities like roads, railroads, airports, bridges and more.

A 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.



The Foundation High School Program | STEM



Bachelor's degree

Typical starting pay:

\$60,653

Average pay:

\$102,990

COMPUTER-CONTROLLED MACHINE OPERATOR

Jobs projected in Texas by 2026:

> 63,120 You will need:

Bachelor's degree
Typical starting pay:

\$53,939

Average pay: \$99,827

YOU WILL:

Assess patient health problems and needs, plan and administer nursing care to ill, injured, convalescent, or disabled patients, and more.

The largest healthcare occupation, with 2.7 million jobs nationwide. About 60 percent of jobs are in hospitals. Licensing or registration required. 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.

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 iobs.

REGISTERED NURSE

Jobs projected in Texas by 2026: 258.880

You will need:

Associate's degree
Typical starting pay:

ypical starting pa \$54,346

Average pay: \$72,892

-11



To get an order form:

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

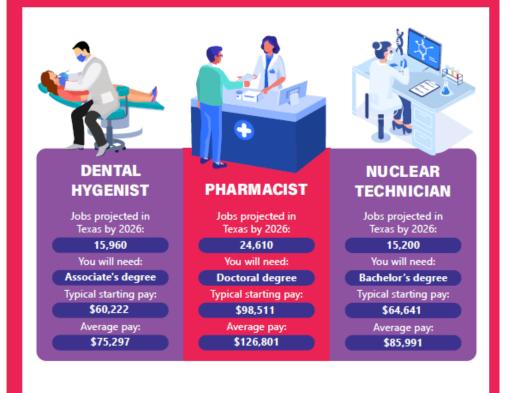
Complete the order form and:

Mail to: TWC/ LMCI
 101 East 15th Street,
 Annex, Room 0252
 Austin, TX 78778-0001

□ Fax to: 512-936-3204

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

Bulletins available late spring 2021





TEXAS WORKFORCE COMMISSION

Labor Market & Career Information 101 E. 15th St, Room 354, Austin, TX 78778-0001 866-938-4444 toll free | Fax: 512-936-3208 Email: Imci@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).

<u>Imci.state.tx.us</u> | <u>www.texasrealitycheck.com</u> | <u>www.texasworkforce.org</u>



When talking to families about endorsements, what do you find important to emphasize?

Type your responses in the chat box.

District Practices Matthew Esqueda, Houston ISD **TEXASONCOURSE**



A GLOBAL DISTRICT IN A GLOBAL CITY

Best Practices for Exploring Endorsements with Families

Houston ISD

- Project Explore Programming
 - Campus Programming
 - Cohort Programming
- Tools for Exploring Endorsements
- Available Resources



What is Project Explore? The Mission

To equip middle school students with the experiences and skills necessary to make informed decisions as they navigate their secondary and postsecondary education and career pathways.



Project Explore Programming

- Programming on campus (all students)
 - Eighth-grade CCR curriculum four lessons
 - Who Am I?/Career Key assessment
 - Exploring Endorsements (MapMyGrad activity)
 - Understanding DLA and GPA
 - Personal graduation plan
 - Seventh-grade CCR Curriculum three lessons
 - Who Am I?/Career Cluster Finder assessment
 - Investigating Career Clusters
 - Postsecondary Options



Project Explore Programming

- Programming with cohort students
 - Seventy-five students: 25 eighth-grade students, 25 seventh-grade students, and 25 sixth-grade students
 - One-one-one advising sessions
 - College tours and industry visits
 - Visiting industry professionals visits
 - Cohort lessons: Texas Reality Check, Texas Career Check, communication skills, etc.
 - Parent meetings
 - DiscoverU camps opportunities
 - Summer camp exploration (eighth grade)



Tools for Exploring Endorsements

- Exploring Endorsements lesson (all eighth-grade students)
- Five HS Endorsements video
- Careers and Endorsements chart
- MapMyGrad endorsement activity
- Endorsement timeline



Careers and Endorsements Chart

Careers & Endorsement Chart

Endorsements: All incoming ninth-graders must select an endorsement based on their career interests and goals to complete the required credits for graduation. Use this chart to find the best endorsement for you based on your career interest for your future.

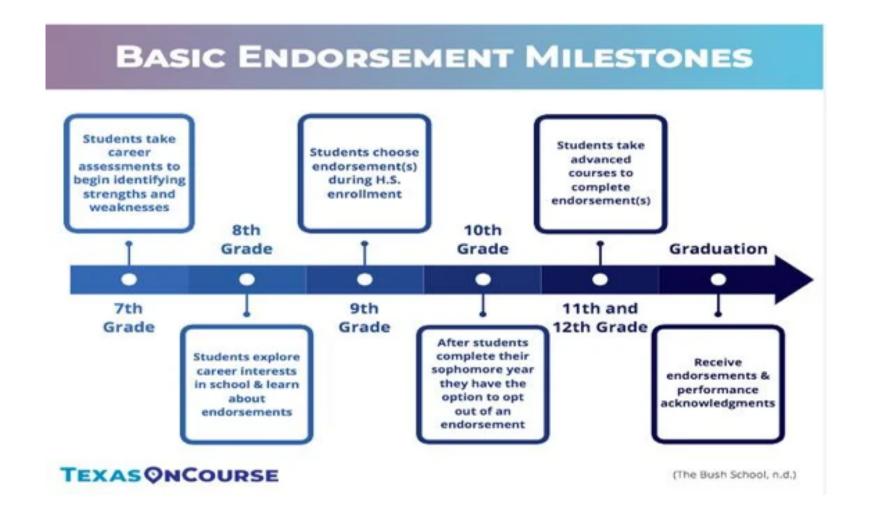
MapMyGrad Activity

 Eighth grade-students will take the MapMyGrad interest quiz on MapMyGrad.org within the Exploring Endorsements lesson.

• This quiz will suggest which endorsement might be best suited for students to study in high school.

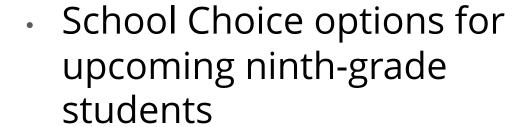


Endorsement Timeline



Available Resources

Khan Academy



DiscoverU camps







Contact Info

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Twitter: @mesqueda88





Thoughts? Questions?

Feel free to type your questions in the chat box.



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