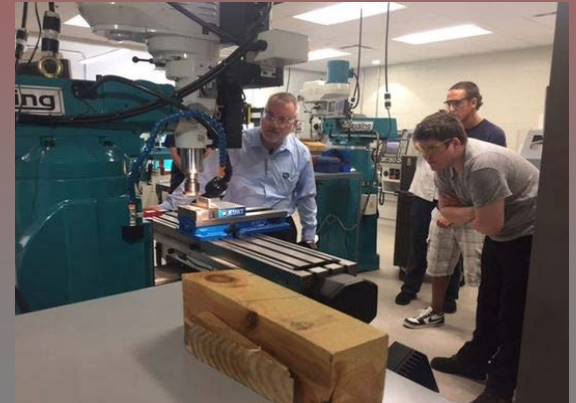


Future Industries Academy



Potential Phase One Programs

Precision Machining



Welding



HVAC



Electromechanical Technology



All identified by Interlink as targeted high skill/high demand occupations for North Central Texas

Potential Phase Two Programs

Computer Aided Manufacturing



Solar Technology



Logistics Technology



Robotics Technology



All identified by Interlink as targeted high skill/high demand or emerging and evolving occupations for North Central Texas

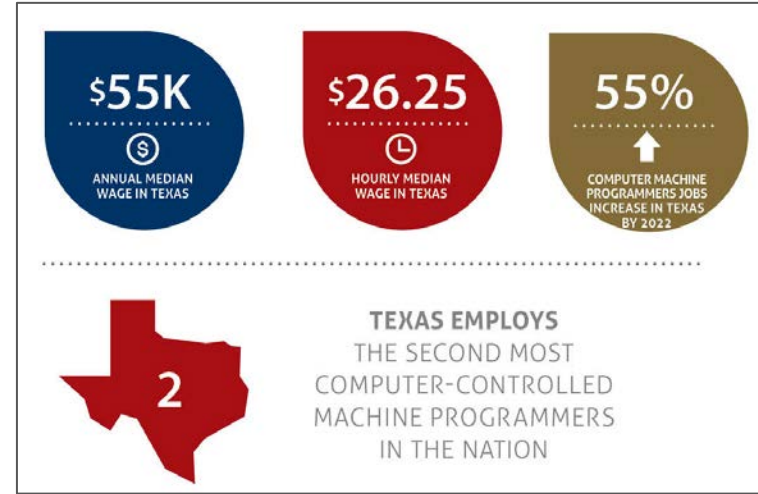
A closer look at Precision Machining Technology

Job fields include

- aircraft industry
- medical and telecommunications equipment
- automotive tool manufacturing
- oil tool manufacturing

Skills taught within the program

- precision measurement
- blueprint reading
- heat treatment of metals
- machine tool operation
- CNC computer programming



1,920 projected annual job openings in Texas through 2022

Potential Offerings

Certification program

Associate of Applied Science

Tentative Four-Year Plan Entering 9th Grade in 2016 - 2017

Name _____ ID NO _____ Grade _____ Date _____

9th	Credits	10th	Credits	11th	Credits	12th	Credits
1. English I	1.0	1. English II	1.0	1. English III – Dual Credit	1.0	1. English IV	1.0
2. Algebra I	1.0	2. Geometry	1.0	2. Algebraic Reasoning	1.0	2. College Algebra/ Plane Trig-DC	1.0
3. Biology	1.0	3. Chemistry	1.0	3. Principles of Engineering	1.0	3. Environmental Systems	1.0
4. World Geography	1.0	4. World History	1.0	4. US History	1.0	4. Gov't/ Econ	1.0
5. Choir	1.0	5. Choir	1.0	5. Flexible Manufacturing	1.0	5. Adv. Precision Metal Manufacturing	1.0
6. Spanish I	1.0	6. Spanish II	1.0	6. Principles of Manufacturing	1.0	6. Adv. Precision Metal Manufacturing	1.0
7. Health/Professional Comm.	1.0	7. PE	1.0	7. Precision Metal Manufacturing	1.0	7. Adv. Precision Metal Manufacturing	1.0
Summer School		Summer School		Summer School		Summer School	
Credits 7.0		Credits 7.0		Credits 7.0		Credits 7.0	

Required Subject Areas	Foundation/Endorsement Plan Students are eligible to apply for general admission to state colleges and universities	English Language Arts 4 th year English:	Math 3 rd and 4 th year Math:	Science 2 nd year Science:	Science 3 rd and 4 th year Science
English	4 credits English 1, 2, 3, 4 th year choice (EOCs: English 1 and English 2)	<ul style="list-style-type: none"> • English 4 • Oral Interpretation 3 • Debate 3 • AP English Literature and Composition • IB Language Studies A1 HL • Professional Communication – if taken after English 3 – a ½ semester course which must be combined with another ½ semester course • Literary Genres – if taken after English 3 • Creative Writing – if taken after English 3 	<ul style="list-style-type: none"> • Math Models • Statistics • Algebra 2 Algebra 2 is a prerequisite for the following courses: <ul style="list-style-type: none"> • Precalculus • Advanced Quantitative Reasoning • AP Statistics • AP Calculus AB • AP Calculus BC • Math Independent Study • IB Mathematics SL • IB Mathematics HL • IB Further Mathematics HL • AP Computer Science A 	<ul style="list-style-type: none"> • IPC (Integrated Physics and Chemistry) • Chemistry 	<ul style="list-style-type: none"> • Chemistry • Physics • Earth and Space Science • Environmental Systems • AP or IB Biology • AP or IB Chemistry • AP Physics 1-2 • AP Physics C • IB Physics • AP Environmental Science • IB Environmental Systems • Anatomy and Physiology • Food Science • Forensic Science • Scientific Research and Design Honors • Engineering Design and Problem Solving • Principles of Engineering
Math	4 credits Algebra 1, Geometry, 3 rd year choice, 4 th year choice (EOC: Algebra 1)				
Science	4 credits: Biology, 2 nd year choice 3 rd year choice, 4 th year choice (EOC Biology)				
Social Studies	4 credits World Geography, World History, US History, US Government/Economics (EOC: US History)				
Fine Arts	1.0 credit Art, Music, Theater, Dance, Principles and Elements of Floral Design				
Foreign Language	2 credits				
Health	.5 or 1.0 credit of Principles of Health Science				
Physical Education	1.0 credit				
Communication	.5 credit – AVID 1, Oral Interpretation 1, Debate 1, Professional Communication				
Electives/Endorsement Choices	5 credits				
Total	26 Credits Distinguished Level of Achievement is the Foundation/Endorsement Plan including Algebra 2. Students are eligible for top 10% automatic admission to state universities.	<ul style="list-style-type: none"> • All prerequisites must be met before taking a course. 	<ul style="list-style-type: none"> • All prerequisites must be met before taking a course. 	<ul style="list-style-type: none"> • All prerequisites must be met before taking a course. 	<ul style="list-style-type: none"> • All prerequisites must be met before taking a course.

Signatures: Student _____ Parent _____ Counselor _____

Circle Endorsement(s) STEM Business and Industry Public Services Arts and Humanities Multidisciplinary

A closer look at Electromechanical Technology

Job fields include

- utilities
- wind energy
- high-speed manufacturing
- medical device production

Skills taught within the program

- DC and AC circuitry
- robotic programming
- industrial automation
- logic controllers
- vision systems



TEXAS EMPLOYS
THE SECOND MOST ELECTRO-
MECHANICAL TECHNICIANS
IN THE NATION

Source: U.S. Bureau of Labor Statistics and O*Net *Wages vary by location, employer and experience.

560 projected annual job openings in Texas through 2022

Potential Offerings

2 levels of certification programs

Associate of Applied Science

Tentative Four-Year Plan Entering 9th Grade in 2016 - 2017

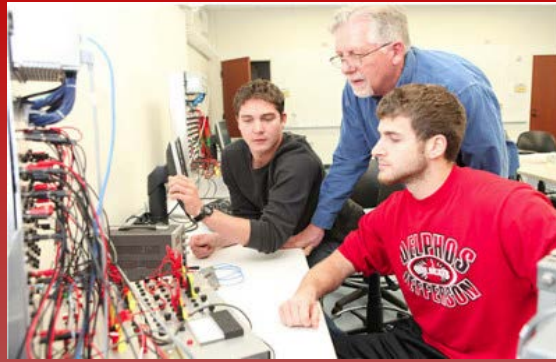
Name _____ ID NO _____ Grade 9 Date _____

9th		Credits	10th		Credits	11th		Credits	12th		Credits
1.	English I	1.0	1.	English II	1.0	1.	English III – Dual Credit	1.0	1.	English IV	1.0
2.	Algebra I	1.0	2.	Geometry	1.0	2.	Algebra II	1.0	2.	College Algebra/ Plane Trig-DC	1.0
3.	Biology	1.0	3.	Chemistry	1.0	3.	Physics	1.0	3.	Environmental Systems	1.0
4.	World Geography	1.0	4.	World History	1.0	4.	US History	1.0	4.	Gov't/ Econ	1.0
5.	Choir	1.0	5.	Choir	1.0	5.	Electronics	1.0	5.	Advanced Electronics	1.0
6.	Spanish I	1.0	6.	Spanish II	1.0	6.	Robotics and Automation	1.0	6.	Advanced Electronics	1.0
7.	Health/Prof., Comm.	1.0	7.	PE	1.0	7.	Concepts of Eng. And Tech.	1.0	7.	Digital Electronics	1.0
Summer School			Summer School			Summer School			Summer School		
		Credits 7.0			Credits 7.0			Credits 7.0			Credits 7.0

Required Subject Areas	Foundation/Endorsement Plan Students are eligible to apply for general admission to state colleges and universities	English Language Arts 4 th year English:	Math 3 rd and 4 th year Math:	Science 2 nd year Science:	Science 3 rd and 4 th year Science
English	4 credits English 1, 2, 3, 4 th year choice (EOCs: English 1 and English 2)	<ul style="list-style-type: none"> • English 4 • Oral Interpretation 3 • Debate 3 • AP English Literature and Composition • IB Language Studies A1 HL • Professional Communication – if taken after English 3 – a ½ semester course which must be combined with another ½ semester course • Literary Genres – if taken after English 3 • Creative Writing – if taken after English 3 	<ul style="list-style-type: none"> • Math Models • Statistics • Algebra 2 Algebra 2 is a prerequisite for the following courses: <ul style="list-style-type: none"> • Precalculus • Advanced Quantitative Reasoning • AP Statistics • AP Calculus AB • AP Calculus BC • Math Independent Study • IB Mathematics SL • IB Mathematics HL • IB Further Mathematics HL • AP Computer Science A 	<ul style="list-style-type: none"> • IPC (Integrated Physics and Chemistry) • Chemistry 	<ul style="list-style-type: none"> • Chemistry • Physics • Earth and Space Science • Environmental Systems • AP or IB Biology • AP or IB Chemistry • AP Physics 1-2 • AP Physics C • IB Physics • AP Environmental Science • IB Environmental Systems • Anatomy and Physiology • Food Science • Forensic Science • Scientific Research and Design Honors • Engineering Design and Problem Solving • Principles of Engineering
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Signatures: Student _____ Parent _____ Counselor _____

Circle Endorsement(s) STEM Business and Industry Public Services Arts and Humanities Multidisciplinary



Your feedback.....

