



2019-2020 HIGH SCHOOL CAREER TECH COURSES















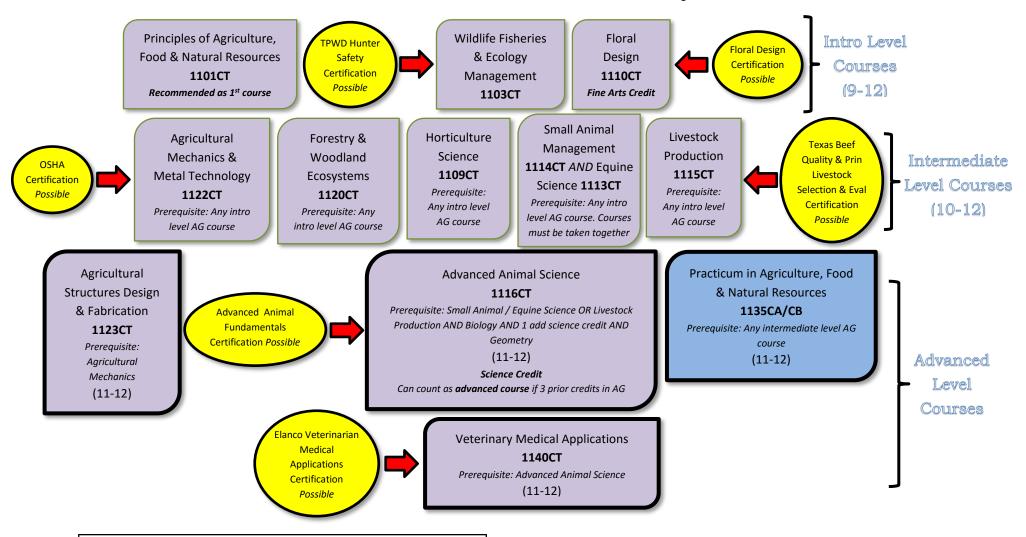
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THINGS TO CONSIDER

- 1 semester at BB = 1 credit AND 1 semester at HC = ½ credit
- 2 semesters at BB = 2 credits AND 2 semesters at HC = 1 credit
- Most Ben Barber endorsements can be completed within two years
- Endorsement = coherent sequence for 4 or more credits that consists of 2 of more courses in the same program of study, one being an advanced course.

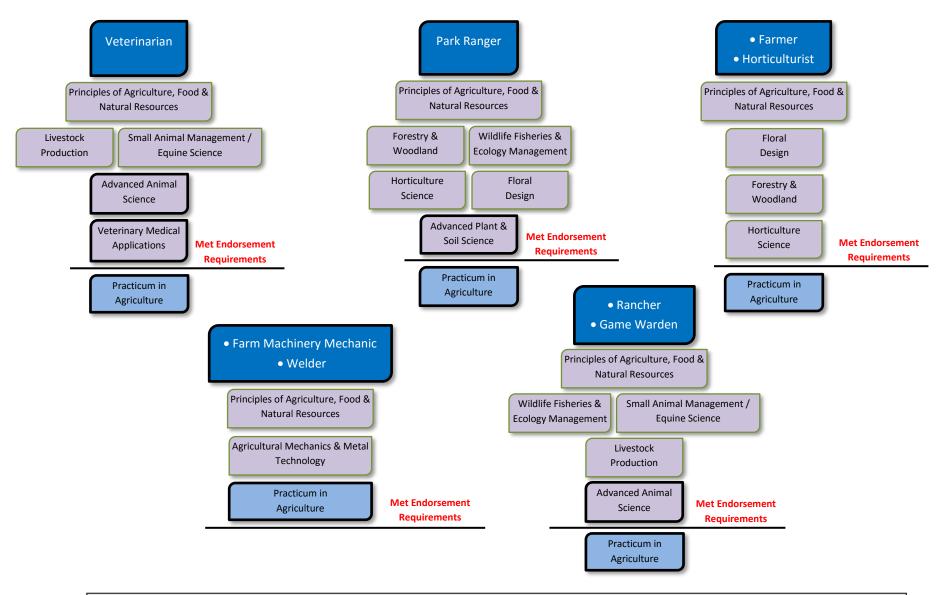
Agriculture, Food & Natural Resources



Certification Requirement					
The district will pay 100% of the cost of the certification test if					
students can show mastery by:					
Passing a certification practice test					
Maintaining an 80+ overall course average at the time of the					
certification test					
If students don't meet the requirements above, they must pay 100% of					
the cost of the certification test					

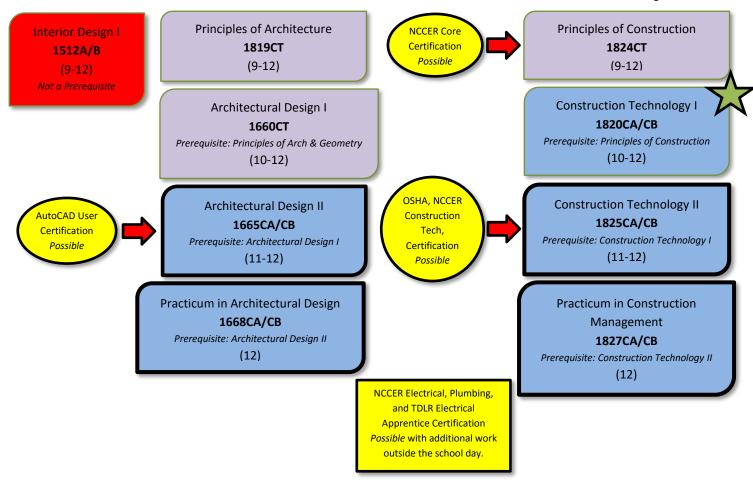
LEGEND						To earn an endorsement, an
Fill Color	Length	Credit	Fill Color	Length	Credit	MISD student must complete a coherent sequence for 4 or
	18 weeks	1		HC - 18 weeks	0.5	more credits that consist of 2
	36 weeks	2-3		HC - 36 weeks	1	courses in the same program of study including at least 1
	College Course			Advanced Co	urse	advanced CTE course

Agriculture, Food & Natural Resources <u>Recommended Career Pathways</u>



Architecture & Construction

Endorsement: Business & Industry



TCC CNBT 1300
Residential & Light Commercial
Blue Print Reading
0194

Prerequisite: No TSI Requirement (10-12) Weighted Credit

TCC CNBT 1316 Construction Technology I **0195**

Prerequisite: No TSI Requirement
(10-12)
Weighted Credit

TCC CNBT 1300 & 1316 will be taken concurrently with Construction Technology I.

In 2020-2021, TCC CNBT 1110 & CNBT 1350 will be added so that students can earn an Occupational Skills Award from TCC upon successful completion of all 4 courses.

There is no TSI requirement for these courses

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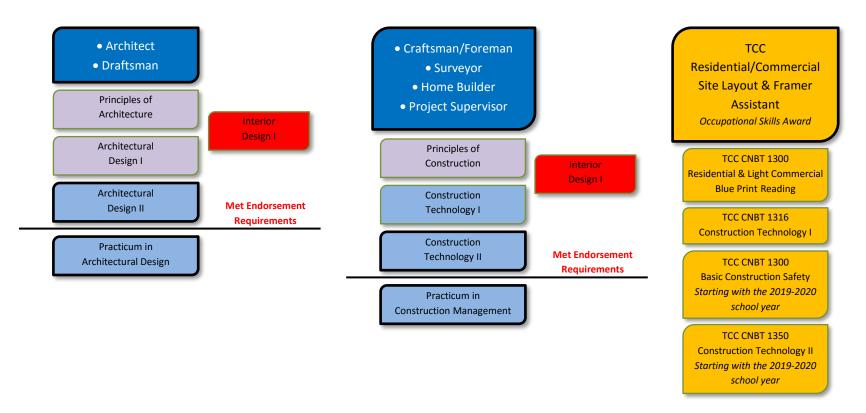
If students don't meet the requirements above, they must pay 100% of the cost of the certification test



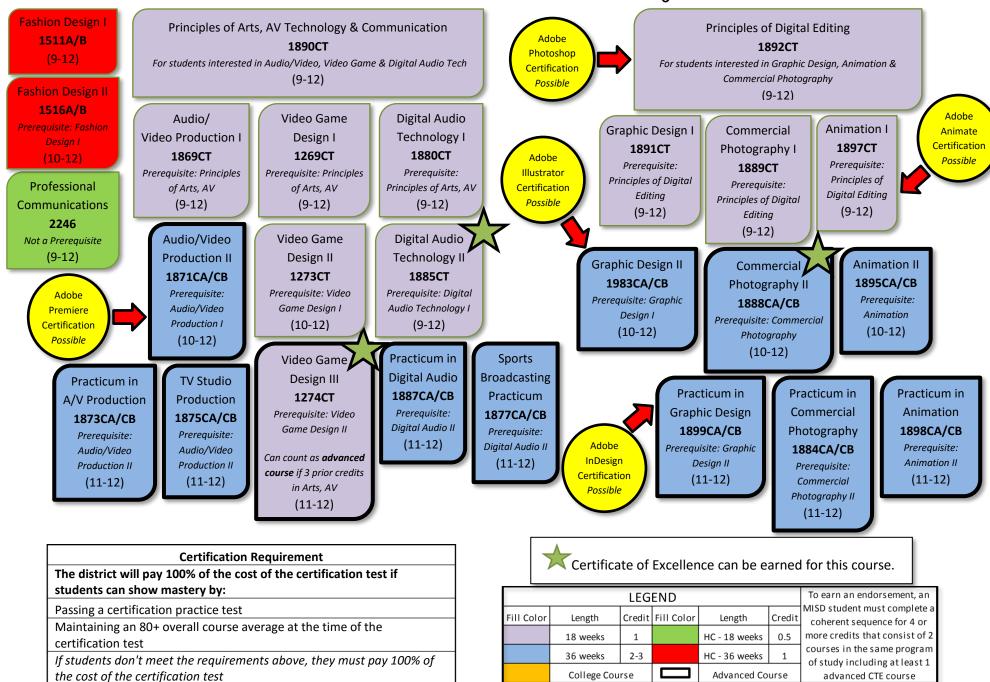
Certificate of Excellence can be earned for this course.

		To earn an endorsement, an				
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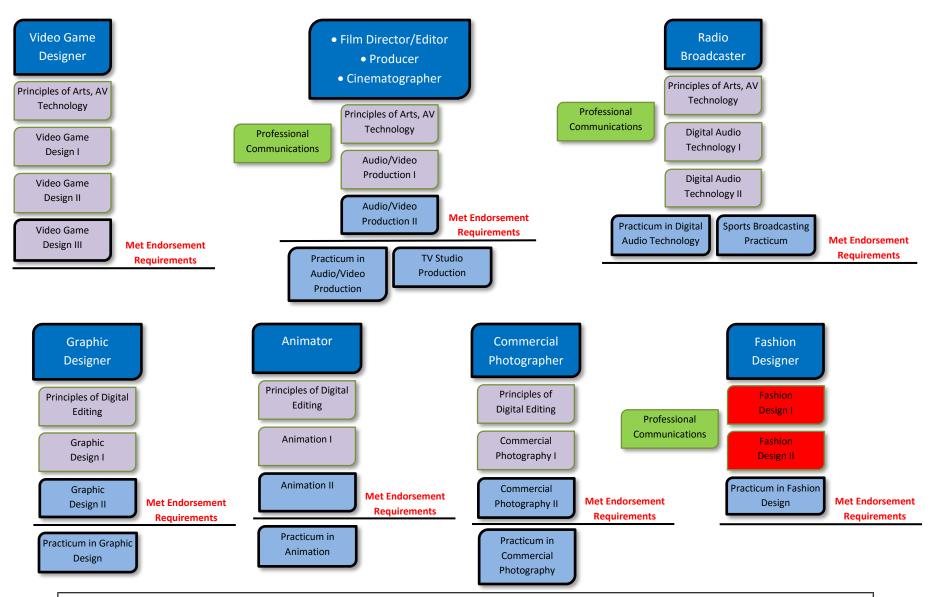
Architecture & Construction Recommended Career Pathways



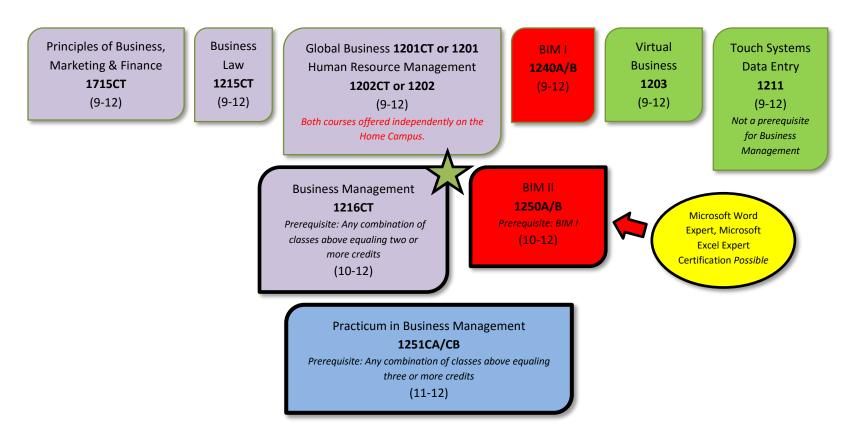
Arts, AV Technology & Communications



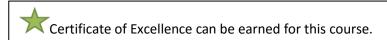
Arts, A/V Technology & Communications <u>Recommended Career Pathways</u>



Business Management & Administration

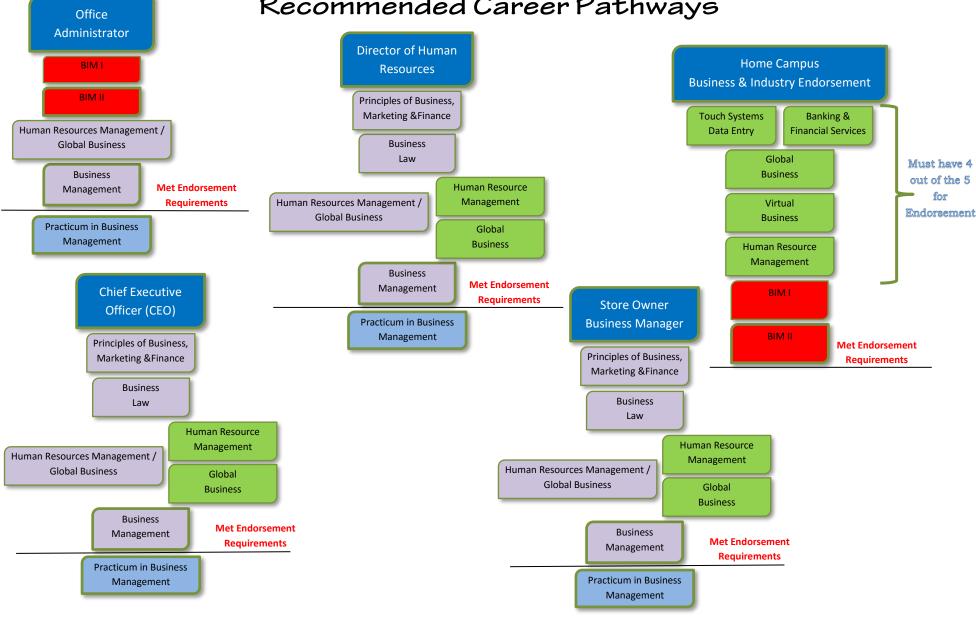


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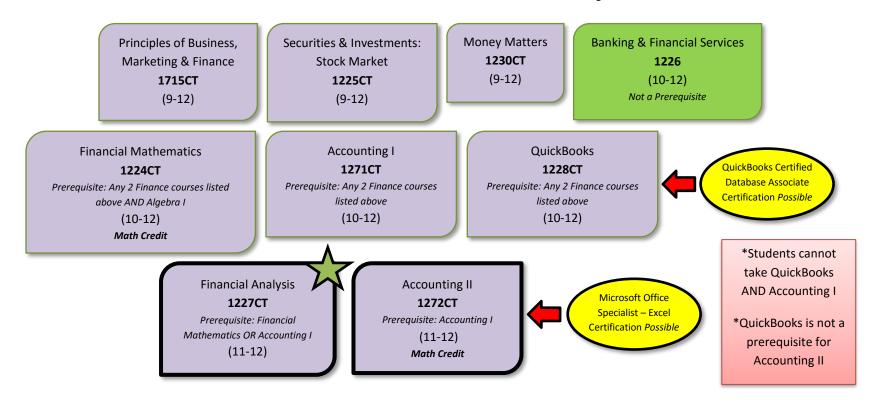


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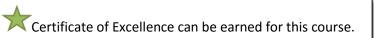
Business Management & Administration Recommended Career Pathways



Finance

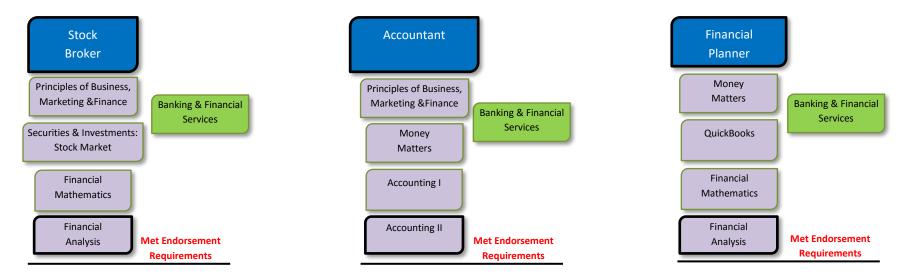


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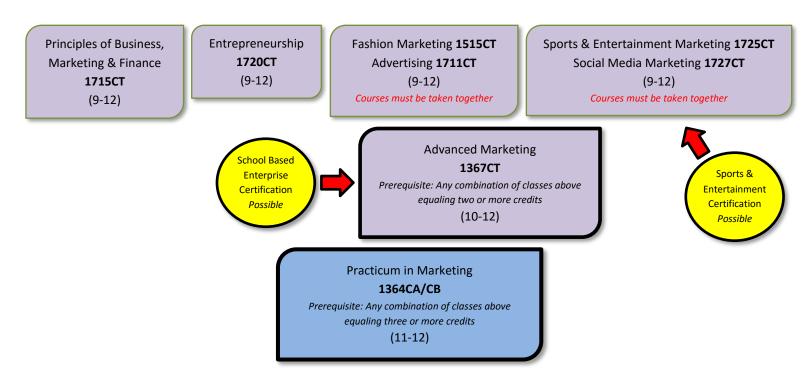


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Finance Recommended Career Pathways



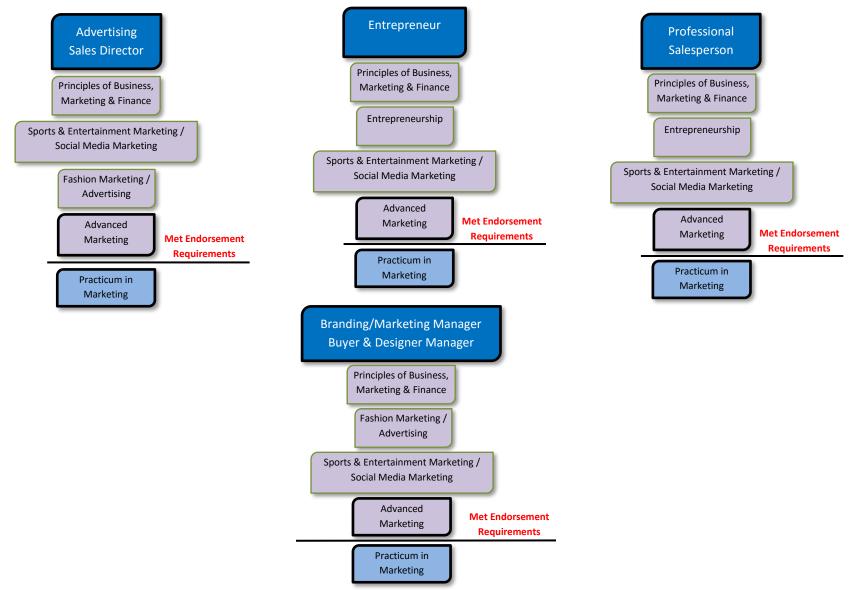
Marketing



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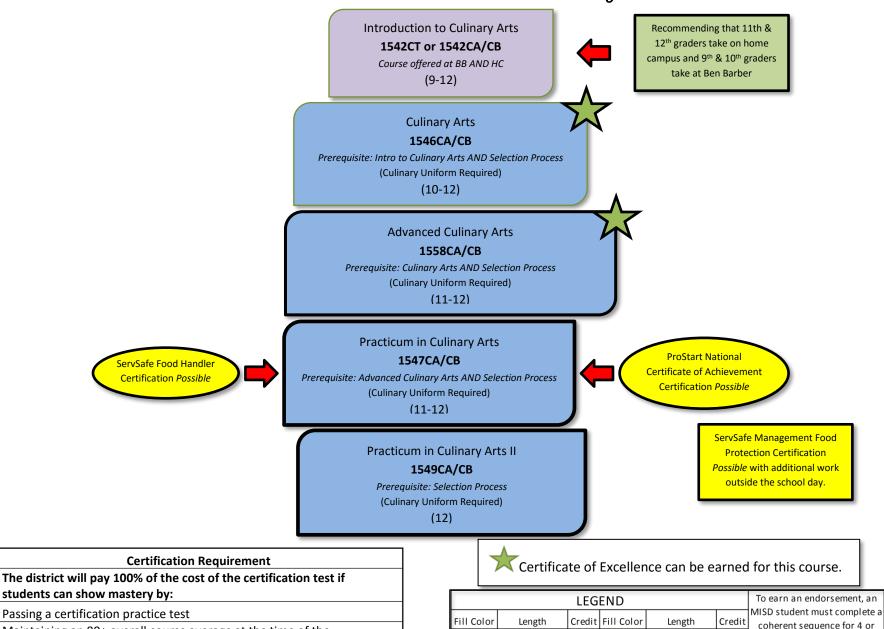
		LEC	END			To earn an endorsement, an
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Marketing <u>Recommended Career Pathways</u>



Hospitality & Tourism

Endorsement: Business & Industry



18 weeks

36 weeks

College Course

2-3

HC - 18 weeks

HC - 36 weeks

Advanced Course

more credits that consist of 2

courses in the same program

of study including at least 1

advanced CTE course

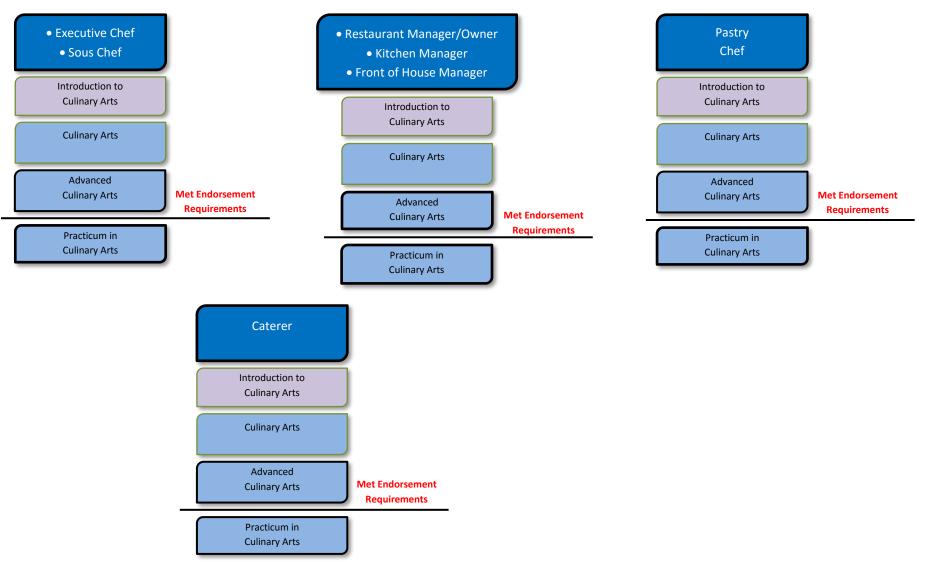
Maintaining an 80+ overall course average at the time of the

If students don't meet the requirements above, they must pay 100% of

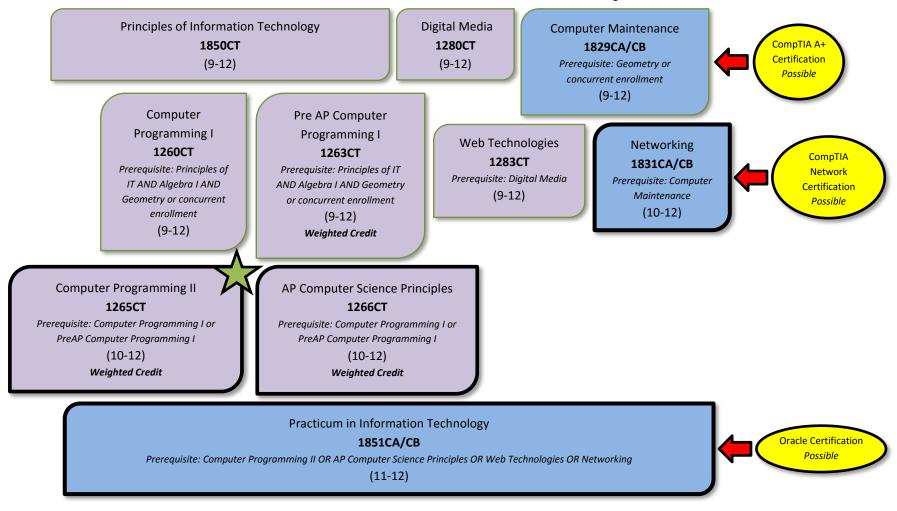
certification test

the cost of the certification test

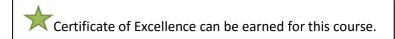
Hospitality & Tourism <u>Recommended Career Pathways</u>



Information Technology

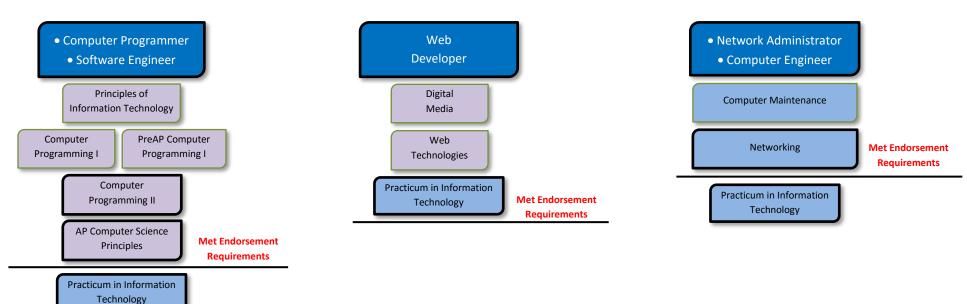


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Information Technology Recommended Career Pathways



Manufacturing

Endorsement: Business & Industry

Principles of Manufacturing
1809CT

(9-12)

Diversified Manufacturing I

1828CT

Prerequisite: Principles of Manufacturing

(9-12)

Welding I Certification Welding I 1813CA/CB

Possible

AWS D1.1

Certification

Possible

OSHA

Certification

Possible

Prerequisite: Prin of Manufacturing (10-12)

Welding II 1814CA/CB Prerequisite: Welding I

(11-12)

TCC WLDG 1428

Intro to Shielded Metal
Arc Welding

0176

Prerequisite: No TSI Requirement

(11-12)
Weighted Credit

TCC WLDG 1430

Intro to Gas Metal Arc
Welding

0177

Prerequisite: No TSI Requirement (11-12)

Weighted Credit

Precision Metal Manufacturing I

1806CA/CB

Prerequisite: Principles of Manufacturing AND Algebra I (10-12) Manufacturing Engineering I

1808CT

Prerequisite: Any 2 credits from Transportation, STEM or Manufacturing

(10-12)

Manufacturing

Engineering II

1805CT

Precision Metal

Manufacturing II

1807CA/CB

Prerequisite: Precision Metal Manufacturing I AND Geometry (11-12)

NIMS Level I

Certification

Possible

taken concurrently with

Welding II.

Prerequisite: Manufacturing Engineering I (10-12) Amateur Ham
Radio
Certification
Possible

TCC WLDG 1317
Intro to Layout &

Fabrication

0178

Prerequisite: No TSI
Requirement
(12)
Weighted Credit

Practicum in Manufacturing

1822CA/CB

This practicum is for students who have completed sequence in Welding or CNC Manufacturing Prerequisite: Welding II OR Precision Metal Manufacturing II

(12)

Practicum in CNC Operator
1823CA/CB

This practicum is for students with no Welding or CNC

Manufacturing experience

Prerequisite: Must have transportation

(12)

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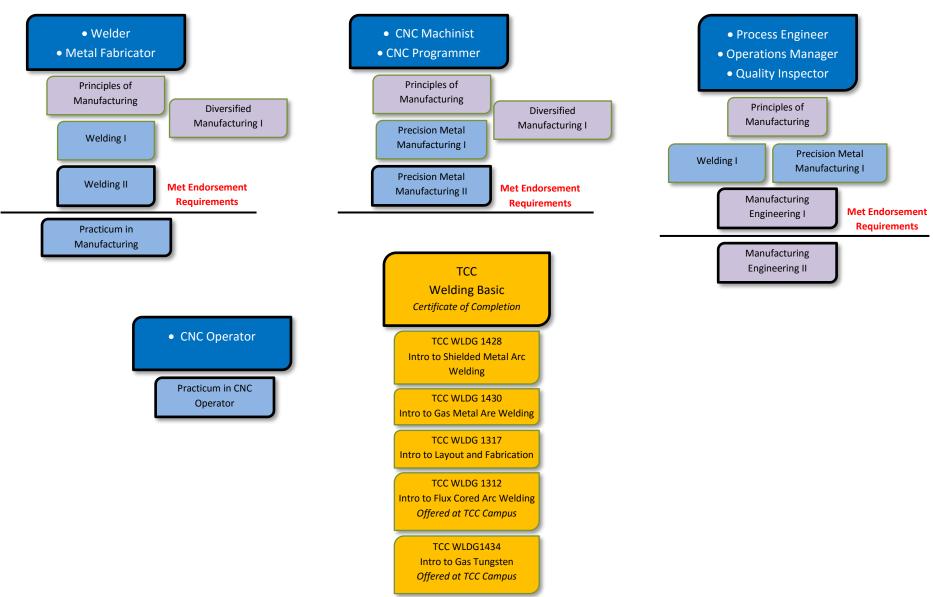
Maintaining an 80+ overall course average at the time of the certification test

If students don't meet the requirements above, they must pay 100% of the cost of the certification test TCC WLDG 1317 will be taken concurrently with Practicum in Manufacturing (Fall Semester)

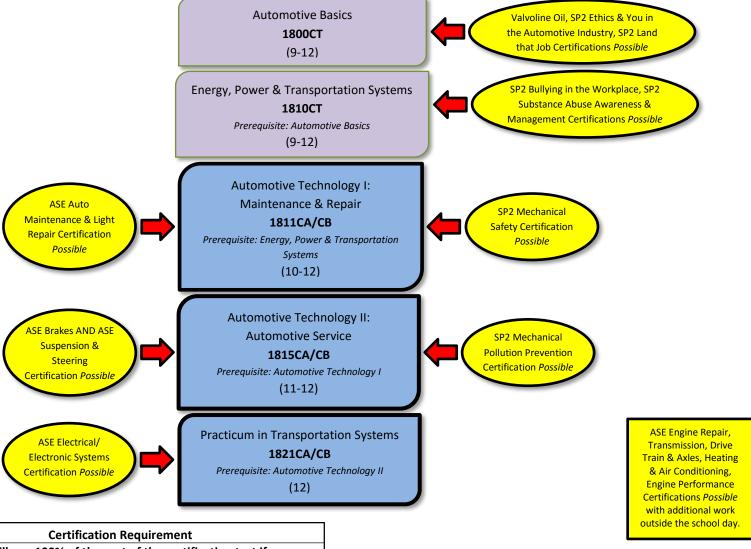
TCC WLDG 1428 & 1430 will be

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Manufacturing Recommended Career Pathways



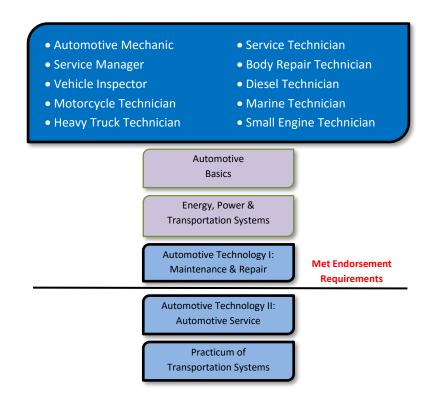
Transportation, Distribution & Logistics



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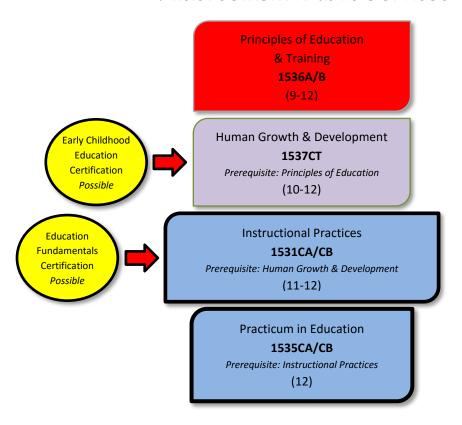
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Transportation, Distribution & Logistics Recommended Career Pathways



Education & Training

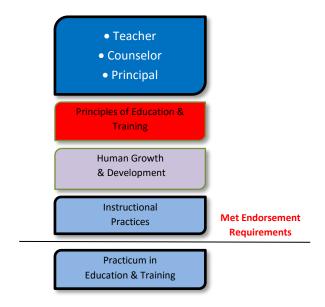
Endorsement: Public Services



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Education & Training Recommended Career Pathways



Human Services

Endorsement: Public Services

Principles of Human Services 1505A/B (9-12) Child Development 1520A/B (9-12) Interpersonal
Studies
1517
(9-12)

Dollars & Sense 1220 (10-12) Lifetime Nutrition & Wellness 1513 (9-12)

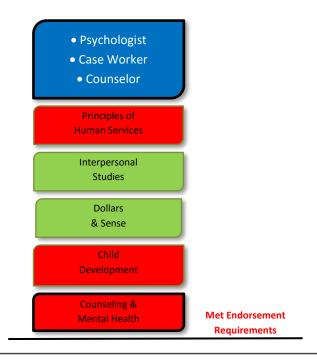
Counseling & Mental Health 1514A/B

Prerequisite: Any Human Services intro courses equally 3 or more credits

(10-12)

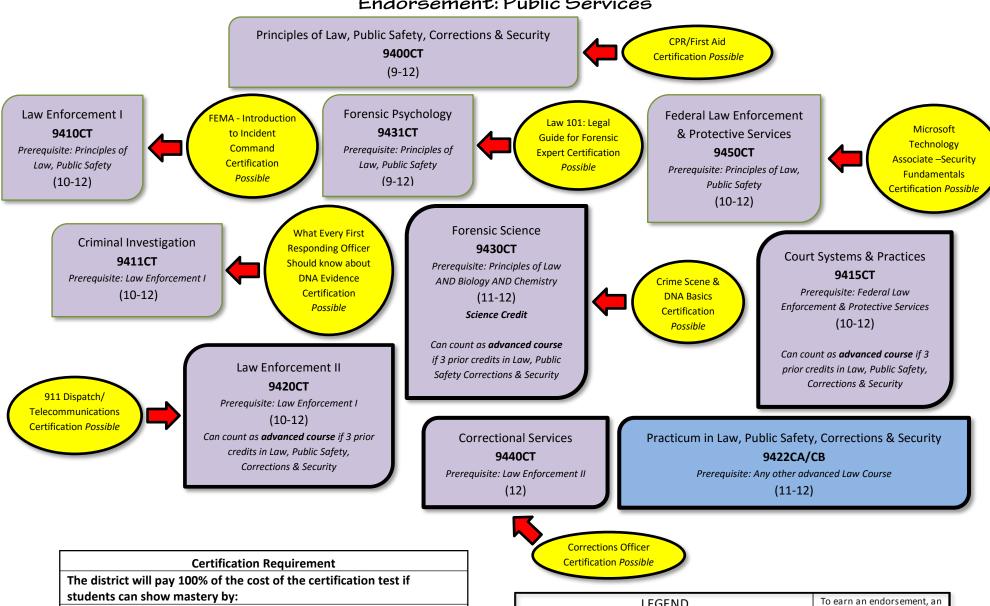
LEGEND										
Fill Color	Length	Credit	Fill Color	Length	Credit					
	18 weeks	1		HC - 18 weeks	0.5					
	36 weeks	2-3		HC - 36 weeks	1					
	College Cou	rse		Advanced Co	urse					

Human Services Recommended Career Pathways



Law, Public Safety, Corrections & Security

Endorsement: Public Services

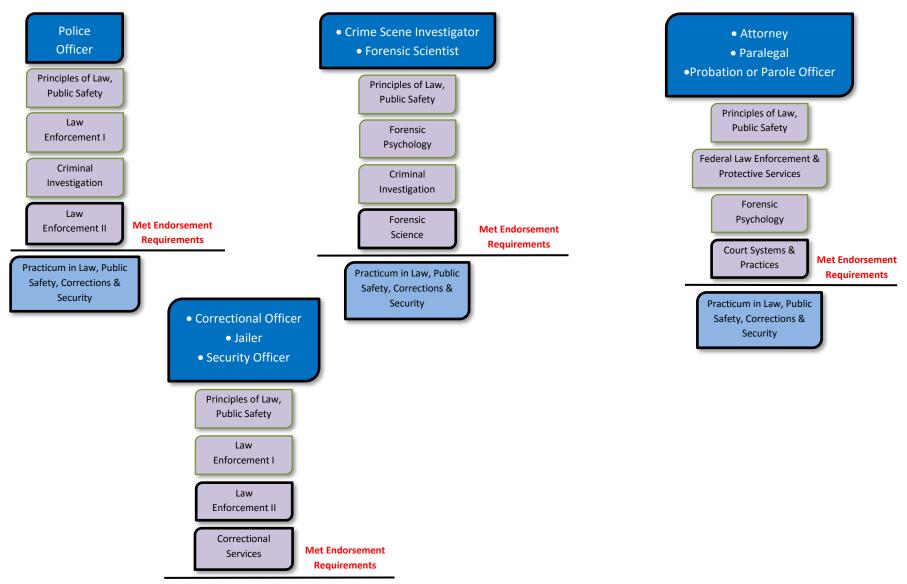


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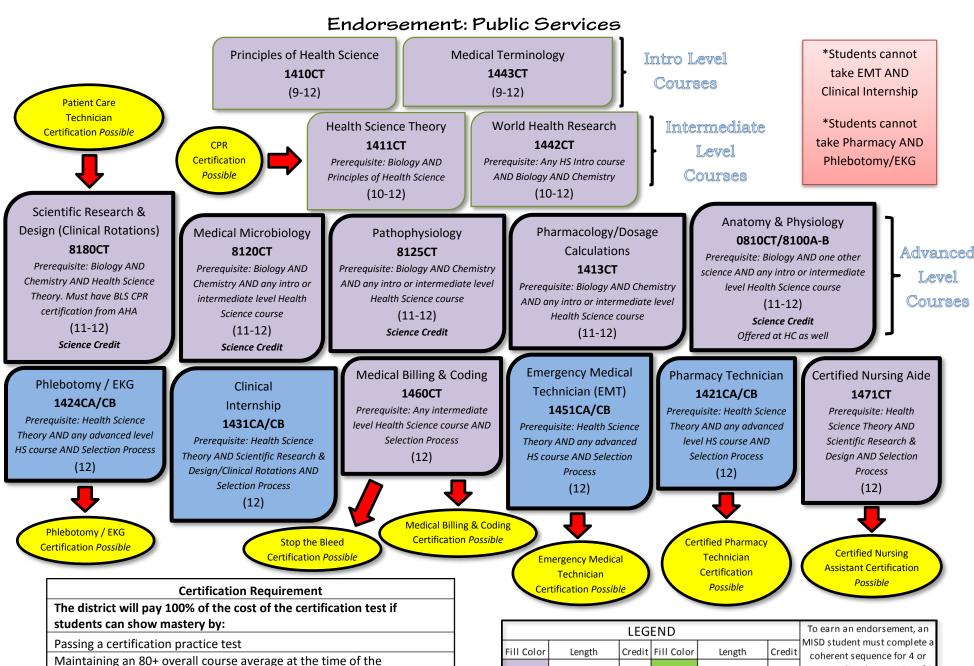
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	18 weeks	1		HC - 18 weeks	0.5	more cred		
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	College Cou	rse		Advanced Co	urse	adva		

dent must complete a it sequence for 4 or dits that consist of 2 in the same program including at least 1 nced CTE course

Law, Public Safety, Corrections & Security Recommended Career Pathways



Health Science



certification test

the cost of the certification test

If students don't meet the requirements above, they must pay 100% of

18 weeks

36 weeks

College Course

1

2-3

HC - 18 weeks

HC - 36 weeks

Advanced Course

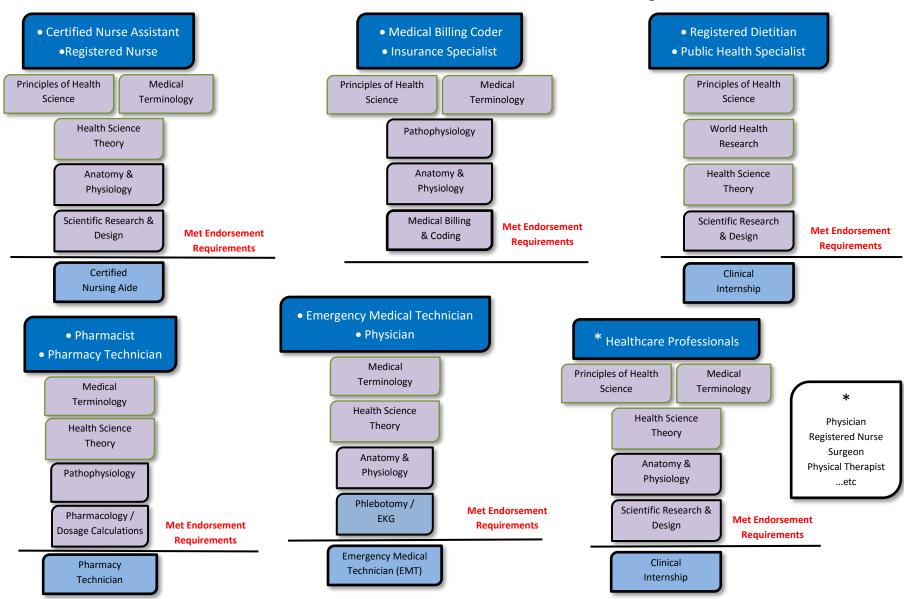
more credits that consist of 2

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advanced CTE course

Health Science Recommended Career Pathways



Science, Technology, Engineering & Math

Endorsement: STEM

Robotics I 1856CT

(9-12)

Computer Science I (PLTW)

> 1050CT Prerequisite: Algebra I (9-12) LOTE Credit

Principles of **Applied Engineering**

1610A/B

(9-12)

Gateway to Technology (PLTW)

(8th grade only)

This course can count toward an endorsement in STEM



AC/DC Electronics

1841CT

Prerequisite: Geometry or concurrent (10-12)

Computer Science II (PLTW)

1051CT

Prerequisite: Computer Science 1 (9-12) LOTE Credit

Introduction to Engineering Design (PLTW)

1835CT

Prerequisite: Geometry AND Robotics I OR Computer Science I

(9-12) Weighted Credit

Solid State Electronics

1843CT

Prerequisite: AC/DC Electronics (10-12)

Can count as advanced course if 2 prior credits in STEM

FAA Certified Commercial **Drone Pilot**

Possible

Edu-Drone I 1860CT

Prerequisite: Algebra I AND Must be 16 years old with DL before the end of the semester (11-12)

Principles of Engineering (PLTW)

1836CT

Prerequisite: Geometry AND Chemistry OR IPC AND Intro to E Design (10-12)

Science Credit/Weighted Credit

Aerospace Engineering (PLTW)

1834CT

Prerequisite: Principles of Engineering (10-12) Weighted Credit

Computer Integrated Manufacturing (PLTW)

1838CT

Prerequisite: Intro to Engineering AND Principles of Engineering (10-12) Weighted Credit

Engineering Design & Development

1845CT

Prerequisite: Computer Integrated Manufacturing OR Aerospace Engineering

(11-12) Weighted Credit

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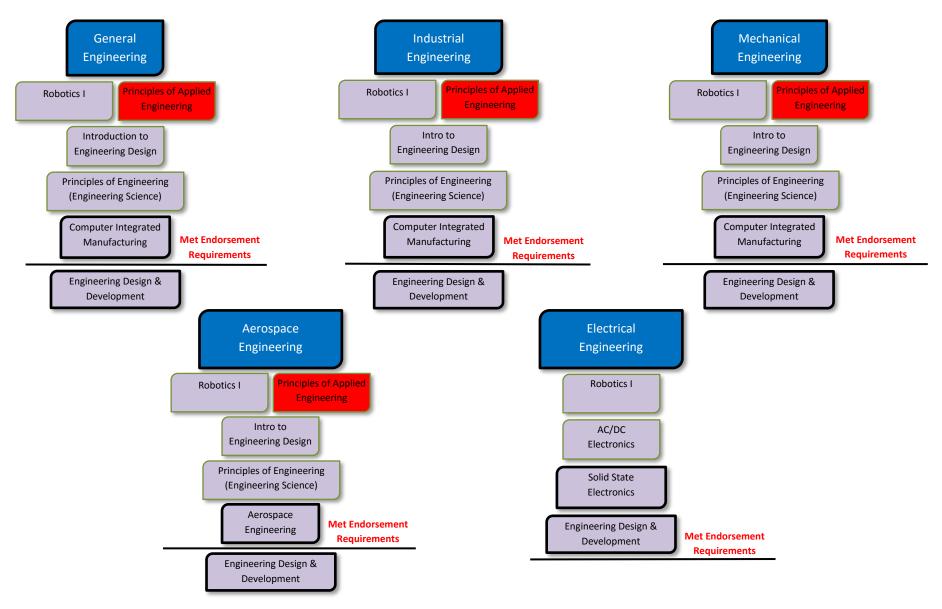
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Science, Technology, Engineering & Math <u>Recommended Career Pathways</u>





HOW DO I FREE UP MY SCHEDULE TO TAKE BEN BARBER COURSES?

- Take high school courses in the 8th grade. Currently, you can take Algebra I, Spanish, Professional Communications, Keyboarding, Gateway to Technology & Health
 - PASS ALL YOUR HIGH SCHOOL CLASSES!!!
 - Take Dual Credit TCC/UTA courses during the summer and/or after school
 - Take virtual classes outside the normal school day