



# Midlothian High School

Endorsement Pathways

# What are Endorsements?



Endorsements are career exploration pathways designed to show students potential opportunities after high school in the workforce.

- ▶ Students learn about potential career pathways through high school electives.
- ▶ Students may earn multiple endorsements while in high school.
- ▶ Students can earn an Industry Based Certification, allowing them to join the workforce with extra knowledge and experience to compete against other employment seekers.

# In this presentation.....

Each CTE and NON-CTE pathway offered at Midlothian High School will be showcased – including all classes taken from 9<sup>th</sup> to 12<sup>th</sup> grade in order for a student to complete a specific pathway.

**Green** = a track also STEM (Math OR Science portion of STEM must also be completed)

**Purple** = courses suggested to add to a student's career pathway experience.

**Note:** courses cannot count for elective AND CORE credits for CTE pathway completion!

- EX: Forensic Science: will either count as the 3rd/4th Public Service CTE or can count as 4th science, not both.
- EX: Financial Math: will either count as part of CTE Business track or can count as a math credit, not both.

# MULTIDISCIPLINARY 4X4

## 4 x 4 (CORE)

(Can be different types of courses such as Pre-AP, AP, International Baccalaureate, or Dual Credit)

4 credits for English: must be English 1-3, 4<sup>th</sup> English = Advanced English Course (*English 4 highly advised*)

4 credits of Social Studies: must be W. Geo, W. Hist, US Hist, Eco, & Govt.

4 credits of Mathematics: must be Alg. 1 and Geometry

4 credits of Science: must be Biology and at least 1 lab based science

Electives: 6 electives from different pathways (a mixture is okay)

LOTE—2 years of the **same foreign language**

Physical Education: 1 full credit, can be a mixture of PE classes

Fine Arts: 1 full credit, can be a mixture of FA classes

**Note:** All students begin on the Multidisciplinary (4x4) endorsement track in 9<sup>th</sup> grade.

## Athletics

4 years of athletics – does not have to be the same sport. *These would be part of the 6 electives for Multidisciplinary. 1 can count as PE credit.*

## Dual Credit

At least 9 credit hours of dual credit = at least 3 dual credit classes. *These can be part of the core or electives for Multidisciplinary.*

# ARTS & HUMANITIES (A&H)

	<i>Freshman</i>	<i>Sophomore</i>	<i>Junior</i>	<i>Senior</i>
<b>Social Studies</b> 1 credit of courses <b>NOT required</b> for graduation	Af. Amer. Studies Mex. Amer. Studies SPTSS 1—4	Psych/Soc Af. Amer. Studies Mex. Amer. Studies SPTSS 1—4	Psychology/Sociology AP Euro. History Af. American Studies Mex. American Studies SPTSS 1—4	Psychology/Sociology Tx Government—DC SPTSS 1—4 AP Euro. History Af. American Studies Mex. American Studies
<b>Language Other Than English</b> —LOTE— (The first 2 credits CAN BE grad. req.)	<p><u>4 credits</u> of same LOTE courses—<b>EX:</b> Spanish 1-4, French 1-4</p> <p>OR</p> <p><u>2 credits</u> of 1 set LOTE courses &amp; <u>2 credits</u> from another set LOTE courses</p> <p><i>Courses must be of the same language for both sets</i></p> <ul style="list-style-type: none"> <li>• <b>EX:</b> Spanish 1 and 2 &amp; French 1 and 2</li> <li>• <b>EX:</b> German 2 and 4, &amp; Spanish 1 and 3</li> </ul>			
<b>Fine Arts</b> (The first credit CAN BE grad. req.)	<p><u>4 credits</u> of Fine Arts courses---<b>EX:</b> Music 1-4, Theatre 1-4</p> <p>OR</p> <p><u>2 credits</u> from 2 sections below---<b>EX:</b> Art 1,2; Theatre 1,2</p> <p>Art, Dance, Music (Band), Theatre, Musical Theatre, Technical Theatre</p>			

# BUSINESS & INDUSTRY (B&I)

AAVTC	Freshman	Sophomore	Junior	Senior
Digital Communication	Principles of Arts, A/V Tech, & Comm. (AAVTC)	Audio/Video Production I	Audio/Video Production II	Practicum in Audio/Video Production
Graphic Design	Principles of AAVTC	Graphic Design and Illustration I	Graphic Design and Illustration II	Practicum in Graphic Design and Illustration
Video Game Design or Programming	Principles of AAVTC	Video Game Design <b>OR</b> Video Game Programming <i>*Could take other for extra elective.</i>	Advanced Video Game Programming	Practicum in Graphic Design and Illustration
<b>Video Game Design/Program Certifications</b>	Taken in Junior year with Advanced Video Game programming: <b>Unity Certified Programmer</b>			
Agriculture	Freshman	Sophomore	Junior	Senior
Agribusiness	Principles of Agri./Food/ Nat. Res. (AFNR)	Professional Standards in Agribusiness	Project Based Research	Practicum of AFNR
<b>Ag. Engineering</b>	Principles of AFNR	Ag. Mech. & Metal Tech	Ag. Structures Design. & Fab	Agricultural Power Systems (2 class pd)
<b>Ag. Engineering Certification</b>	<b><u>AWS Welding certification:</u></b> will be completed in their junior or senior year.			
<b>Animal Science</b>	Principles of AFNR	Livestock Production	Ad. Animal Science	Practicum of AFNR

Env. & Natural Resources	Principles of AFNR	Wildlife, Fish, & Ecology Mgt.	Ag. Mgt. and Marketing	Practicum of AFNR
<b>Arch. &amp; Const.</b>	<b>Freshman</b>	<b>Sophomore</b>	<b>Junior</b>	<b>Senior</b>
HVAC Tech  <b>Dual Credit Red Oak</b>	Principles of Business, Marketing & Finance (BMF)  Can be taken in 9 <sup>th</sup> or 10 <sup>th</sup> grade		HVAC I (Fall) --- HVAC II (Spring)  <b>(Dual Credit Red Oak)</b>	Practicum in Construction I (Fall) --- Practicum in Const. II (Spring) <b>(Dual Credit Red Oak)</b>
Industrial Systems Mechanic Electrical  <b>Dual Credit Red Oak</b>	Principles of Business, Marketing & Finance (BMF)	Precision Metal I (Fall) --- Diversified Manufacturing I (Spring) <b>(Dual Credit Red Oak)</b>	Diversified Manufacturing II (Fall) --- Practicum in Manufacturing I (Spring) <b>(Dual Credit Red Oak)</b>	Practicum in Manufacturing II (Fall)  <b>(Dual Credit Red Oak)</b>
<b>B&amp;I English</b>	<b>Freshman</b>	<b>Sophomore</b>	<b>Junior</b>	<b>Senior</b>
Business English  (4 years of same classes 1-4)	Public Spkng. 1 Debate 1 Adv. Broadcast. Journalism 1 Newspaper or Yearbook 1	Public Spkng.2 Debate 2 Adv. Broadcast. Journalism 2 Newspaper or Yearbook 2	Public Spkng. 3 Debate 3 Adv. Broadcast. Journalism 3 Newspaper or Yearbook 3	Public Spkng. 4 Debate 4 Adv. Broadcast. Journalism 4 Newspaper or Yearbook 4
<b>Bus. Mrk. Fin.</b>	<b>Freshman</b>	<b>Sophomore</b>	<b>Junior</b>	<b>Senior</b>
Business, Finance, & Marketing	Principles of Business, Marketing & Finance (BMF)	Accounting—10 <sup>th</sup> or 11 <sup>th</sup> Business Management—10 <sup>th</sup> or 11 <sup>th</sup> Sports Ent. Mrkt./Advertising—10 <sup>th</sup> or 11 <sup>th</sup> <b>(Will take another in Junior year)</b>		Practicum in Entrepreneurship (MILE) <b>Business English—elective</b>

Culinary Arts	Principles of Hospitality and Tourism (HOSP)	Culinary Arts (2 periods, MILE)	Adv. Culinary Arts (2 periods, MILE)  <b>Food Science</b> --- counts as Sci. credit	Prac. in Cul. Arts (2 periods, MILE)
<b>Culinary Arts Certifications</b>	<b><u>ServSafe Manager:</u></b> taken before moving into Mile courses.			
Entrepreneurship	Principles of Business, Marketing & Finance (BMF)	Entrepreneurship I (MILE) <b>Extra electives</b> <b>Accounting</b> <b>Business Mgt.</b> <b>Sports Ent. &amp; Mrkt./Adver.</b>	Entrepreneurship II (MILE) <b>Extra electives</b> <b>Accounting</b> <b>Business Mgt.</b> <b>Sports Ent. &amp; Mrkt./Adver.</b>	Practicum in Entrepreneurship (2 periods, MILE)  <b>Business English</b> — <b>elective</b>
<b>Diesel/Heavy Equipment</b>	<b>Freshman</b>	<b>Sophomore</b>	<b>Junior</b>	<b>Senior</b>
Diesel Equipment Technology  <b>Dual Credit</b> <b>Red Oak</b>	Principles of Business, Marketing & Finance (BMF)  Can be taken in 9 <sup>th</sup> or 10 <sup>th</sup> grade year.		Occupational Safety and Environmental Technology I (Fall)  ---- Diesel Equipment Tech I (Spring) <b>(Dual Credit Red Oak)</b>	Diesel Equipment Technology II (Fall)  ---- ADV. Tech Lab (Spring) <b>(Dual Credit Red Oak)</b>
<b>Engineering</b>	Introduction to Engineering Design	Engineering Science	Civil <b>OR</b> Aerospace Engineering (MILE)	Practicum in Engineering (MILE)
<b>Cybersecurity</b>	Foundations of Cybersecurity	Internetworking Technologies I (MILE)	Internetworking Technologies II (MILE)	Cybersecurity Capstone (MILE)
<b>Cybersecurity Certifications</b>	<b><u>Capstone Certifications:</u></b> IT Fundamentals+, Network+, CCNA, Security+, Cisco CyberOps, Certified Ethical Hacker (CEH), CySA+  Student will choose which certification to work on in Senior year.			



# PUBLIC SERVICES (PS)

	Freshman	Sophomore	Junior	Senior
<b>Criminal Justice</b>	Prin. of Law & Public Safety (LPCS)	Law Enforcement 1 <b>Psych and Soc for electives</b>	Law Enfmnt. 2 <b>OR</b> Coun. & Men. Health <i>*Could take other for extra elective.</i>	Cou. & Men. Health <b>OR</b> <b>Forensic Science</b> —counts as Sci. Crdt
<b>Education</b>	Prin. of Education <b>OR</b> Human Services	Human Growth & Development <b>Psych and Soc for electives</b>	Instructional Practices (2 class periods) <b>Coun. &amp; Men. Health elective</b>	Practicum in Education (2 class periods)
<b>Education Certification</b>	<b>Educational Aide I:</b> students will earn this in their Senior year—must take Prin. of Education, and Instructional Practices at least—will earn when they turn 18 yrs. old.			
	Freshman	Sophomore	Junior	Senior
<b>Health Science</b>				
<b>Healthcare Diagnostics</b>	Principles of Health Science (HLSC)	Medical Terminology	Health Sci. Theory <b>Med. Microbio</b> -can count Sci. Crdt.	Practicum in CNA <b>OR</b> Anatomy & Physiology
<b>Health Science</b>	Principles of HLSC	Medical Terminology	Health Sci. Theory <b>Med. Microbio</b> -can count Sci. Crdt.	Practicum in CNA <b>Anat. &amp; Phys</b> -can count Sci Crdt.

<b>Sports Medicine</b>	Principles of HLSC	Sports Medicine I <b>Med Term-</b> potential elective	Sports Medicine II <b>Med. Micrbio-</b> can count Sci. Crdt.	Anatomy & Physiology
<b>Health Sci. Certifications</b>	<b><u>Practicum Certifications:</u></b> Certified Nursing Assistant (CNA), Emergency Medical Technician (EMT), Phlebotomy (CPT)			
<b>Human Services</b>	<b>Freshman</b>	<b>Sophomore</b>	<b>Junior</b>	<b>Senior</b>
Cosmetology  <b>Dual credit Waxahachie</b>	Principles of Human Services	Human Growth & Development	Intro to Cosm. & Cosm. I (2 classes) <b>(Dual Credit WAX)</b>	Cosmetology II (2 class periods) <b>(Dual Credit WAX)</b>
<b>Cosmetology Certifications</b>	<b><u>Senior level certifications:</u></b> Esthetician Specialty License, Manicurist Specialty License, Operator License			
Human Services	Principles of Human Services	Human Growth & Development  <b>Psych and Soc for electives</b>	Counseling and Mental Health <b>OR</b> Peer Assistance and Leadership I	Family and Community Services <b>OR</b> Peer Assistance and Leadership II
<b>Military</b>	J/ROTC 1	ROTC 2	ROTC 3	ROTC 4

# Science, Technology, Engineering, Mathematics (STEM)

- A student must pass Algebra 2, Physics, Chemistry PLUS requirements below.
- Note: it does not matter if the courses are regular, AP, DC, Pre-AP, or Honors

## STEM

### Mathematics

3 credits in mathematics by successfully completing Algebra II AND two additional mathematics courses for which **Algebra II is a prerequisite.**

Required courses: Algebra 1, Geometry, Algebra 2, Chemistry

+

**2 more Math:** Pre-Cal, Cal 1, Stats, Cal 2, Trig, other attributable math courses

## STEM

### Science

Required courses: Biology, Chemistry, Physics, Algebra 2

+

#### **2 additional Science Courses:**

Adv. Animal Science, Anatomy & Phys.,

Aqua Science, Biology 2, Chemistry 2,

Earth, Space, Science (ESS), Engineering Science,

Environmental Systems, Food Science, Forensic Science,

IPC, Medical Micro Biology, other attributable science courses