



Brownsville Independent School District

Agenda Category: General Function Board of Education Meeting: 11/02/2026

Item Title:	<u>Approval of Specialized Middle School</u>	<u>X</u>	Action
	<u>and JROTC Pilot Planning for 2027-</u>		Information
	<u>2028 and a 2026-2027 Course Guide</u>		Discussion
	<u>Appendix</u>		

BACKGROUND:

Request approval to begin planning a specialized middle school with Engineering, Health Science, and Aviation pathways connecting to Early College High School (ECHS), along with the proposed eighth-grade JROTC pilot program, as presented to the board committee on September 22, 2026. This request also includes developing an appendix to the 2026–2027 course listing guide in preparation for the 2027–2028 school year. Planning will align course sequences, curriculum, and PEIMS coding with applicable approval timelines under 19 TAC §74.27. Final school and course approvals, agreements, and funding will be presented separately to the Board of Trustees.

FISCAL IMPLICATIONS:

None

RECOMMENDATION:

Recommend approval to begin planning the specialized middle school with Engineering, Health Science, and Aviation pathways and the eighth-grade JROTC pilot program, and to develop an appendix to the 2026–2027 course listing guide in preparation for 2027–2028.

Approved for Submission to Board of Education:

Dr. Norma Ibarra-Cantu/Adrian Dorsett

Submitted by: Ex. Director/Pro. Director

Dr. Alma Cardenas-Rubio

Recommended by: Asst. Superintendent

Dr. Alma Cardenas-Rubio

Approved by: Assistant Superintendent

Dr. Timothy E. Cuff

Dr. Timothy E. Cuff, Superintendent

When Necessary, Additional Background May Follow This.



BOARD OF TRUSTEES • COMMITTEE MEETING

Student Achievement, Curriculum and Technology Meeting

Dr. Timothy E. Cuff, Superintendent

September 22, 2026



**Brownsville Independent School
District**

Technology
Human Resources
Assessment Research & Evaluation
Curriculum & Instruction
Bilingual Dept.
Special Education
Instructional Goals
CCMR & CTE
Student Achievement

04

CCMR Outcomes & CTE

New Middle School Pathways

Exploration of three new pathways beginning in middle school: Engineering, Health Science, and Aviation



FOR THIS SECTION

CCMR Outcomes

CTE & Industry Certification

New Middle School Pathways

01 Technology

02 Curriculum & Instruction

03 Instructional Goals

04 CCMR & CTE

05 Student Achievement

06 Board Requests

Evansville ISD - Board of Trustees Committee Meeting - September 22, 2019

Explorations of Three New Middle School Pathways

State programs of study that begin in middle school and continue through high school



Engineering

Goal: Bachelor of Science in Manufacturing Engineering

MIDDLE SCHOOL COURSES

- Principles of Applied Engineering
- Engineering Design Process

High school: 5 courses through practicum

ALIGNED CERTIFICATIONS

Engineering Technology Foundations

CAREER OUTLOOK (MEDIAN WAGE • 10-YR GROWTH)

Mechanical Engineers

\$103,189 +19%

Civil Engineers

\$82,483 +18%

EXPLORING - Exploring the possibility of adding Greenpower Electric Car club to the Engineering pathway.



Health Science

Goal: Bachelor of Science in Integrated Health Science

MIDDLE SCHOOL COURSES

- Principles of Health Science

High school: 5 courses through practicum

ALIGNED CERTIFICATIONS

EKG Tech • EMT-Basic • Medical Assistant • Patient Care • Pharmacy • Phlebotomy

CAREER OUTLOOK (MEDIAN WAGE • 10-YR GROWTH)

Physician Assistants

\$131,082 +41%

Dental Hygienists

\$89,155 +32%



Aviation

Goal: General Education Core Curriculum Requirements

MIDDLE SCHOOL COURSES

- Principles of Applied Engineering
- Engineering Design Process

High school: 7 courses through practicum

ALIGNED CERTIFICATIONS

Drone, aerodynamics, and sUAS safety certifications (state-aligned)

CAREER OUTLOOK (MEDIAN WAGE • 10-YR GROWTH)

Airline Pilots

\$233,909 +14%

Commercial Pilots

\$168,239 +20%



Goal Bachelor of Science in Integrated Health Science



Goal: General Education Core Curriculum Requirements



Aviation Pathway

Transportation, Distribution & Logistics cluster · Program of study: Aviation Pilots

COURSE SEQUENCE

MIDDLE SCHOOL

Principles of Applied Engineering · Engineering Design Process

HIGH SCHOOL

Intro to Aerospace & Aviation · Intro to Aircraft Technology

HIGH SCHOOL

Intro to Unmanned Aerial Vehicles · Aerospace Design I

HIGH SCHOOL

Aerospace Design II · Aviation Ground School

HIGH SCHOOL

Practicum in Transportation Systems

CAREER OUTLOOK

Airline Pilots, Copilots & Flight Engineers

\$233,909

median wage 1,268 openings/yr +14%

Commercial Pilots

\$168,239

median wage 750 openings/yr +20%

POSTSECONDARY

- Air Transport Pilot Apprentice
- Associate or bachelor's: Airline/Commercial Pilot & Flight Crew
- Airman Certificate



GUIDE PRESENTATION

Aviation Programs



Flight Academy of South Texas

Completing the program of study fulfills business & industry credential program requirements.

