



# PROGRAM STRANDS FOR 2021-2022

*All aviation students will follow the advanced diploma track in addition to the required Aviation courses.*

9th Grade Aviation Courses	10th Grade Aviation Courses	11th Grade Aviation Courses	12th Grade Aviation Courses
<b>AVIATION TECHNOLOGY Program Strand</b> Students learn the terminology, concepts and procedures through hands-on experiences that blend in the dynamics of the aircraft. By completing this sequence they are prepared to take the General Maintenance Technician certification after graduation.			
<ul style="list-style-type: none"> <li>• Aerospace Technology I</li> </ul>	<ul style="list-style-type: none"> <li>• Aerospace Technology II</li> </ul>	<ul style="list-style-type: none"> <li>• Aviation Maintenance Technology I (double block)</li> </ul>	<ul style="list-style-type: none"> <li>• Aviation Maintenance Technology II (double block) (Honors)</li> </ul>
<b>FLIGHT OPERATIONS Program Strand</b> Students will learn vital and pertinent knowledge, including classroom portion of pilot ground school to learning to fly aircraft itself to the actual operations of an airport. Courses also involve understanding the FAA guidelines where this information will prepare them to take the FAA Air Traffic Control exam.			
<ul style="list-style-type: none"> <li>• Aircraft Pilot Training I</li> </ul>	<ul style="list-style-type: none"> <li>• Aircraft Pilot Training II (double block) (Honors)</li> </ul>	<ul style="list-style-type: none"> <li>• Aviation Operations Management (double block)</li> </ul>	<ul style="list-style-type: none"> <li>• Air Traffic Control (double block) (Honors)</li> </ul>
<b>AEROSPACE ENGINEERING Program Strand</b> Through Project Lead The Way, Aviation students will learn the process of Aerospace Engineering through courses taken such as Introduction to engineering design – Aerospace, Digital Electronics, Aerospace Engineering and Engineering Design and Development Capstone.			
<ul style="list-style-type: none"> <li>• Introduction to Engineering Design - Aerospace</li> </ul>	<ul style="list-style-type: none"> <li>• Digital Electronics (Honors)</li> </ul>	<ul style="list-style-type: none"> <li>• Aerospace Engineering</li> </ul>	<ul style="list-style-type: none"> <li>• Engineering Design and Development Capstone</li> </ul>
<b>AVIATION SECURITY AND SAFETY Program Strand</b> This program strand allows students to experience a new realm of aviation. Through Criminal Justice in Aviation and Public Safety in Aviation, students will have familiarity and exposure to many government agencies such as the Homeland Security, TSA, National Transportation Safety Board and more.			
<ul style="list-style-type: none"> <li>• Criminal Justice in Aviation I</li> </ul>	<ul style="list-style-type: none"> <li>• Criminal Justice in Aviation II (double block) (Honors)</li> </ul>	<ul style="list-style-type: none"> <li>• Public Safety in Aviation I</li> </ul>	<ul style="list-style-type: none"> <li>• Public Safety in Aviation II (double block) (Honors)</li> </ul>

*Students have the opportunity to earn industry certifications in each program strand.*

