

**NHS Applied STEM Department  
Courses by Grade**

| <b>Year</b>      | <b>PLTW Biomedical Science</b>   | <b>PLTW Engineering</b>   | <b>Technology Education</b>  |
|------------------|--|---|--|
| <b>Freshman</b>  | <ul style="list-style-type: none"> <li>● Principles of Biomedical Science (PBS)*</li> </ul>  | <ul style="list-style-type: none"> <li>● <b>Intro to Engineering (IED)*</b></li> </ul>  | <ul style="list-style-type: none"> <li>● Intro to Design Processes</li> </ul>  |
| <b>Sophomore</b> | <ul style="list-style-type: none"> <li>● Principles of Biomedical Science (PBS)*</li> <li>● Human Body Systems (HBS)*</li> </ul>   | <ul style="list-style-type: none"> <li>● <b>Intro to Engineering (IED)*</b></li> <li>● <b>Principles of Engineering (POE)*</b></li> </ul>   | <ul style="list-style-type: none"> <li>● Intro to Design Processes</li> <li>● <b>Intro to Advanced Manufacturing &amp; Logistics*</b></li> <li>● Intro to Construction</li> <li>● Intro to Transportation</li> </ul>   |
| <b>Junior</b>    | <ul style="list-style-type: none"> <li>● Principles of Biomedical Science (PBS)*</li> <li>● Human Body Systems (HBS)*</li> <li>● Medical Interventions (MI)*</li> </ul>  | <ul style="list-style-type: none"> <li>● <b>Intro to Engineering (IED)*</b></li> <li>● <b>Principles of Engineering (POE)*</b></li> <li>● Aerospace Engineering (AE)*</li> <li>● <b>Civil Engineering &amp; Architecture (CEA)*</b></li> <li>● <b>Computer Integrated Manufacturing (CIM)*</b></li> <li>● <b>Digital Electronics (DE)*</b></li> </ul>   | <ul style="list-style-type: none"> <li>● Intro to Design Processes</li> <li>● <b>Intro to Advanced Manufacturing &amp; Logistics*</b></li> <li>● Intro to Construction</li> <li>● Intro to Transportation</li> <li>● <b>Advanced Manufacturing I**</b></li> </ul>                                      |
| <b>Senior</b>    | <ul style="list-style-type: none"> <li>● Principles of Biomedical Science (PBS)*</li> <li>● Human Body Systems (HBS)*</li> <li>● Medical Interventions (MI)*</li> <li>● <b>Biomedical Innovation (BI)**</b></li> </ul> | <ul style="list-style-type: none"> <li>● <b>Intro to Engineering (IED)*</b></li> <li>● <b>Principles of Engineering (POE)*</b></li> <li>● Aerospace Engineering (AE)*</li> <li>● <b>Civil Engineering &amp; Architecture (CEA)*</b></li> <li>● <b>Computer Integrated Manufacturing (CIM)*</b></li> <li>● <b>Digital Electronics (DE)*</b></li> <li>● Engineering Design &amp; Development**</li> </ul> | <ul style="list-style-type: none"> <li>● Intro to Design Processes</li> <li>● Intro to Design Processes</li> <li>● <b>Intro to Advanced Manufacturing &amp; Logistics*</b></li> <li>● Intro to Construction</li> <li>● Intro to Transportation</li> <li>● <b>Advanced Manufacturing I**</b></li> </ul> |

**Note:** Bold course titles are dual credit, \*denotes +0.5 GPA weight, \*\*denotes +0.75 GPA weight