|  |  |  |  |
| --- | --- | --- | --- |
| **Program of Study** | **IHE Partner** | **Program Previously Offered in** **District? (Y/N)** | **Expected Program Student Outcomes** |
| **Advanced Manufacturing and Machinery Mechanics** | **TSTC** | **N** | **Associate of Applied Science + Industrial Systems Mechanic** |
|  |
| **Year / Grade Level** | **High School Course** | **Post-Secondary Course** |
| **PEIMS Course/Code #** | **High School Course Name** | **High School Credits** | **Texas Common Course Numbering System Number** | **College Course Name** | **College Credit Hours** |
| **Total Year 0 High School Credits** |  | **Total Year 0 College Credit Hours** |  |
| Year 1 / Grade 9 | 03220100 | English I A&B | 1 |  |  | 3 |
| Year 1 / Grade 9 | 03010200 | Biology A&B | 1 |  |  |  |
| Year 1 / Grade 9 | 03100500 | Algebra I A&B | 1 |  |  |  |
| Year 1 / Grade 9 | 03340400 | World History | 1 |  |  |  |
| Year 1 / Grade 9 | 03440100 | Spanish I A&B | 1 |  |  |  |
| Year 1 / Grade 9 | PES00052 | PE | 1 |  |  |  |
| Year 1 / Grade 9 | N1290001 | AVID I A&B | 1 |  |  |  |
| Year 1 / Grade 9 |  | Fine Art | 1 |  |  |  |
| **Total Year 1 High School Credits** | 8 | **Total Year 1 College Credit Hours** | 6 |
| Year 2/ Grade 10 | 03220200 | English 2A&B | 1 |  |  | 3 |
| Year 2/ Grade 10 | 03100700 | Geometry | 1 |  |  | 3 |
| Year 2/ Grade 10 | 03040000 | Chemistry | 1 |  |  | 3 |
| Year 2/ Grade 10 | 03330100 | US Government | 0.5 |  |  | 3 |
| Year 2/ Grade 10 | 3310300 | Economics | 0.5 |  |  |  |
| Year 2/ Grade 10 | 03440200 | Spanish II A & B | 1 |  |  |  |
| Year 2/ Grade 10 | N1290002 | AVID II | 1 |  |  |  |
| Year 2/ Grade 10 | 13032700 | Metal Fabrication and Machining 1 | 2 | MCHN 1302 | Print Reading for Machine Trades |  |
| Year 2/ Grade 10 | 13032800 | Metal Fabrication and Machining 2 | 2 | MCHN 1300 | Beginning Machine Shop | 3 |
| Year 2/ Grade 10 | 13032500 | Precision Metal Manufacturing 1 | 1 | MCHN 1320 | Precision Tools and Measurement |  |
| Year 2/ Grade 10 | 13032600 | Precision Metal Manufacturing 2 | 2 | MCHN 1343 | Machine Shop Mathematics |  |
| **Total Year 2 High School Credits** | 16 | **Total Year 2 College Credit Hours** | 21 |
| Year 3/Grade 11 | 03220300 | English III A | 1 |  |  | 3 |
| Year 3/Grade 11 | 03100600 | Algebra II | 1 |  |  | 3 |
| Year 3/Grade 11 | 03050000 | Physics | 1 |  |  | 3 |
| Year 3/Grade 11 | 03340100 | U S History | 1 |  |  |  |
| Year 3/Grade 11 | N1290030 | AVID III | 1 |  |  |  |
| Year 3/Grade 11 | 13033005 | Practicum in Manufacturing | 3 | MCHN 1371 | Engineering Computer Graphics |  |
| Year 3/Grade 11 | 13033010 | Practicum in Manufacturing | 2 | MCHN 1438 | Basic Machine Shop 1 |  |
| Year 3/Grade 11 | 13033015 | Practicum in Manufacturing | 3 | MCHN 2344 | Computerized Numerical Control Programs | 4 |
| Year 3/Grade 11 | 13033000 | Practicum in Manufacturing | 2 | MCHN 2303 | Fundamental of Computer Numerical Controlled (CNC) Machine Controls | 3 |
| **Total Year 3 High School Credits** | 24 | **Total Year 3 College Credit Hours** | 40 |
| Year 4/Grade 12 | 03320400 | English IV | 1 |  |  | 3 |
| Year 4/Grade 12 | 13016900 or 03101100 | Statistics in Business Making Decisions or PreCal  | 1 |  |  | 3 |
| Year 4/Grade 12 | 13020600 or 13029500 | Anatomy and Physiology or Forensic Science | 1 |  |  |  |
| Year 4/Grade 12 |  |  |  | MCHN 1326 | Introduction to Computer-Aided Manufacturing (CAM) | 3 |
| Year 4/Grade 12 |  |  |  | MCHN 1454 | Intermediate Machining 2 | 3 |
| Year 4/Grade 12 |  |  |  | MCHN 2335 | Advanced CNNC Machining | 3 |
| Year 4/Grade 12 |  |  |  | MCHN 2471 | Speciaized Equipment and Processes | 3 |
| **Total Year 4 High School Credits** | 32 | **Total Year 4 College Credit Hours** | 61 |
| **Total High School Credits** |  | **Total College Credit Hours** |  |
| **Certification (s) to be earned by high school graduation:** | Precision Machining Technology Certificate 1 |
| **Degree (s) to be earned by high school graduation:** |  |

CDN: \_161906\_\_\_\_\_\_\_\_\_\_