|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **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\_\_\_\_\_\_\_\_\_\_