**Amarillo College Curriculum Map Template**

**Division:** Technical Education **Degree/Academic Program(s):** Machining (MCHN.CERT; MCHN.CERT.BAS) **Person Responsible for Division:** Megan Eikner, Dean **Component Director/Chair:** Kim Hays **Submission Date:** 10 Dec 2015 **Purpose Statement:**

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| **Goal #1:**  **Produce student completers with the needed knowledge application skills and credentials to advance in industry. (Critical Thinking Skills)**  **\*\*To graduate students that demonstrate the knowledge necessary to apply learned skills and credentials that will enable them to advance in the industry.** | | | | | |
| **Program-Specific Courses** | **PLO #1:**  **Demonstrate Industrial Safety Practices** | **PLO #2:**  **Apply Mathematical Applications to**  **Plan of Operation** | **PLO #3:**  **Use Engineering Drawings to Develop Job Plan** | **PLO #4:**  **Operate Precision Measuring Equipment and Evaluate Compilations** | **PLO #5:**  **Execute Metal Working Operations** |
| **ELMT-1305 Basic Fluid Power** | **I** | **I** | **I** |  |  |
| **MCHN-1332 Bench Work and Layout** | **I** | **I** | **I** | **I** | **I** |
| **MCHN-1338 Basic Machine Shop I** | **D** | **D** | **D** | **D** | **D** |
| **MCHN-1341 Basic Machine Shop II** | **D** | **D** | **D** | **D** | **D** |
| **MCHN-1352 Intermediate Machining I** | **D** | **D** | **D** | **D** | **D** |
| **MCHN-1354 Intermediate Machining II** | **D** | **D** | **D** | **D** | **D** |
| **Program-Specific Courses** | **PLO #1:**  **Demonstrate Industrial Safety Practices** | **PLO #2:**  **Apply Mathematical Applications to**  **Plan of Operation** | **PLO #3:**  **Use Engineering Drawings to Develop Job Plan** | **PLO #4:**  **Operate Precision Measuring Equipment and Evaluate Compilations** | **PLO #5:**  **Execute Metal Working Operations** |
| **MCHN-2303 Fundamentals of Computer Numerical Controlled Machine Controls** | **D** | **D** | **D** | **D** | **D** |
| **MCHN-2341 Advanced Machining I** | **M** | **M** | **M** | **M** | **M** |
| **WLDG-1307 Introduction to Welding Using Multiple Processes** | **I** | **I** | **I** |  | **I** |
| **WLDG-1337 Introduction to Welding Metallurgy** | **D** | **I** | **I** | **I** | **I** |
| **WLDG-1372 Layout and Fabrication I** | **D** | **D** | **D** | **D** | **D** |

**I = Introduced; D = Developed & Practiced with Feedback; M = Demonstrated at Mastery**