**Amarillo College Curriculum Map**

**Division:** Technical Education **Degree/Academic Program(s):** Industrial Technology (IMRT.AAS; IMRT.CERT; IMRT.CERT.ELMT)
**Person Responsible for Division:** Megan Eikner, Dean **Component Director/Chair:** Delane McUne **Submission Date:** Fall 2015 **Purpose Statement:** The mission of the Industrial Technology program is to provide hands-on instruction in five specialty tracks for future maintenance technicians in a variety of residential, commercial, and industrial settings.

|  |
| --- |
| Goal #1: To graduate students who are prepared to work as technicians in an industrial environment |
| Program-Specific Courses | PLO #1:Student will understand and construct control/circuit wiring appropriate for system  | PLO #2:Student will perform electrical diagnostics | PLO #3:Student will demonstrate equipment repair and installation | PLO #4:Student will apply systems integration concepts to ensure proper operation | PLO #5:Student will troubleshoot mechanical and electrical systems |
| IEIR 1312 – Distribution Systems | D | D | D | I | I |
| IEIR 1310 – Motor Controls | D | D | I | D | I |
| WLDG 1307 – Introduction to Welding Using Multiple Processes |  |  | D |  |  |
| MCHN 1332 – Bench Work and Layout |  |  | D |  | D |
| Program-Specific Courses | PLO #1:Student will understand and construct control/circuit wiring appropriate for system  | PLO #2:Student will perform electrical diagnostics | PLO #3:Student will demonstrate equipment repair and installation | PLO #4:Student will apply systems integration concepts to ensure proper operation | PLO #5:Student will troubleshoot mechanical and electrical systems |
| HART 1307 – Refrigeration Principles  | I | D |  | D | I |
| HART 2338 – Air Conditioning Installation and Startup | D | D | D | D | D |
| EECT 2335 – Telecommunications | I |  |  | I |  |
| ELMT 1301 – Basic Programmable Logic Controllers | D | D | I | D | D |
| IEIR 1306 – Electric Motors | D | D | I |  | I |
| INMT 2301 – Machinery Installation | I |  | D | I | I |
| MCHN 2312 – Millwright V |  | I | D | D | D |
| WLDG 1372 – Layout and Fabrication I |  |  | D |  |  |
| HART 2342 – Commercial Refrigeration | D | D | D | D | D |
| Program-Specific Courses | PLO #1:Student will understand and construct control/circuit wiring appropriate for system  | PLO #2:Student will perform electrical diagnostics | PLO #3:Student will demonstrate equipment repair and installation | PLO #4:Student will apply systems integration concepts to ensure proper operation | PLO #5:Student will troubleshoot mechanical and electrical systems |
| INTC 1301 – Principles of Industrial Measurements I | I |  |  | I |  |
| INTC 1343 – Application of Industrial Automatic Control | D | D | D | D | I |
| HART 1311 – Solar Fundamentals | D | D | D | I |  |
| WIND 2359 – Wind Power Delivery | D | D | I | D | D |
| ELMT 2333 – Industrial Electronics | D | D | I | D |  |
| ELMT 1305 – Basic Fluid Power | I |  | I | D | D |
| HART 1345 – Gas and Electric Heating | I | D | D | D | I |
| ELMT 1302 – Solar Photovoltaic Systems | D | D | D | I | I |
| INTC 2310 – Principles of Industrial Measurements II | D | D | D | D | D |
| Program-Specific Courses | PLO #1:Student will understand and construct control/circuit wiring appropriate for system  | PLO #2:Student will perform electrical diagnostics | PLO #3:Student will demonstrate equipment repair and installation | PLO #4:Student will apply systems integration concepts to ensure proper operation | PLO #5:Student will troubleshoot mechanical and electrical systems |
| HART 2336 – Air Conditioning Troubleshooting | M | M | M | M | M |
| ELMT 2341 – Electromechanical Systems | M | M | M | M | M |

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