<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Student Learning Outcomes</th>
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| ELTT 101   | Electrical Trades I| 1. understand basic math as it pertains to basic electricity. (ILO2, ILO3)  
2. understand ohms law, series and parallel circuits, also combination circuits. (ILO2, ILO3)  
3. understand basic electromagnetic theory which will include magnetism, field strength, motor action and definition of electromagnetism. (ILO2, ILO3)  
4. understand basic motors and generators. (ILO2, ILO3) |
| ELTT 102   | Electrical Trades II| 1. understand transformer construction and parts in a distribution transformer. (ILO2, ILO3)  
2. understand three phase transformers and different types of three phase circuits and connections. (ILO2, ILO3)  
3. understand inductive reactance, capacitive reactance and impedance. (ILO2, ILO3)  
4. understand basic power distribution/power grids. (ILO2, ILO3) |
| ELTT 103   | Electrical Trades III| 1. understand industry rules, regulations, and safety standards. (ILO1, ILO2, ILO3)  
2. describe the various parts of a distribution power pole including but not limited to crossarms, deadend arms, insulators, transformers, and down guys. (ILO2, ILO3)  
3. understand the function of overhead transformers including three phase hookups, analyze transformer construction, and discuss application to Imperial Irrigation District standards and the utility industry. (ILO2, ILO3)  
4. understand underground primary voltage connections including; 600 amp tee bodies, 200 amp elbows, and quick terms used in transitioning from underground to overhead feeds. (ILO2, ILO3) |
| ELTT 104   | Electrical Trades IV| 1. understand industry rules, regulations, and safety standards. (ILO2, ILO3)  
2. understand line trucks, derricks, digging equipment, and bucket trucks, their uses, and safety when using equipment. (ILO2, ILO3)  
3. understand and describe the overhead distribution system including delta and wye connections, cutouts, switches, reclosers, sectionalizers, capacitors, and voltage regulators. (ILO1, ILO2, ILO3)  
4. understand the various troubleshooting techniques on underground and overhead transformers, and cable fault location. (ILO2, ILO3) |